

1910 Jan 20 Thursday of Leven Oaks 1 movement Left trashinglar thursday (face 18) of minight train for new good to allend meeting of based of director, a, a, p, y s. d. Tomo gerarenos and gertimete list mashington by afternoon train for new york, think they went to gan 13. Amo Ripleys, mo grosseur Went to two Ripleys and gerlunde to mo Pellolo. Mr & anchill als left med-13 and g Sternoon trusic gan I reached To. J. friday morning Jan 14. you 14, and went to Witel Lorand where I had reak act. found my may to got Lexuglaare by ten belook we had quite a full meeting of the board of directors, my me absenter. fresent, - mo Johnson of Indame. Thus me Cowel of Chicago. Dr Civiles of Rhila. Mre Williams of Harland. Westerst All Lyon of Dreboth M. y.

at Twin Clalis 3 Jan 20 Movements of a. G. Continued. Taken down by lo. C. C. Mrs. Grosvenor and Mr. Fairchild stayed with me at notel Soraine (Jan 14). The principal object of the meeting of the Board of the a. a. P. S. D. was to consider and discuss the new policies recommended by Mr. Fairchild and myself in our letter to Dr. Crouter dated January 10, copies of which trad been sent to the members of the Board in advance of the meeting . I had prepared a series of tentative resolutions designed to carry these policies into effect, and these were referred to a committee to be fut in shape for presentation. The resolutions as finally prepared by the committee were adopted at the bougget table at the trotal Loraine. Mr. Grosvenov, and Dr. Mason of Washington, D. O, were elected members of she assaration, with others early in the day. the later Mr. Snorenor was elected to the Goard in place of Mrs. Stubbard, deceased. My resignation as as member of The Board was accepted, and Dr. Mason of Hashington elected to the Goard in my place. Then an executive Committee was appointed consisting of the Trendent Oroller, Vice Tresident Gale, and Messes Fanchild, Gravenor and Main of Washington, Thus constituting the three Washington members a greature of the executive committee. Dr. Westervelt, Secretary of the Goard to be ly officia Secretary of the executive committee, though not a member of the committee

at Juni Och Thursday It was decided to add a popular department to The association Review and The executive committee was Given full power to employ a managing Edetor In the Review and carry out the new policy. Mr. Booth has elected General Sicretary of the Association, and Suherintendent of the Volla Toureau, and was also appointed associate Editor in Charge of technical matter. In Eichelberger of Washington was appointed Theasur of the association. The executive committee was requested to audit the accounts of the association as they were incurred, at least once a month and were empoured to select a business man of Mashington to act as leuditor for the Association to make an annual audit of the accounts. The Goard passed a resolution to appoint an advisory Council for the Board of which The Founder of the association (als. B.) should be chairman. The following persons were then elected members of the advisory Council; alexander Graham Gell, Miss Samet B. Rogers, How. Robert C. Spencer, Mr. Wesselins of Michigan, Miss Hamilton of Jochester, Miss Janett of Philadelphia ONV. Wainwight of Boston) (not sure of him), Inv. St. John ackers of Ongland, and Miss Tusama Hull of England Shink here were some others, but don't recall Their names. The meeting, adjourned at 110.M. Jan. 14. a.l. B.

1910 Jan 20 at Twin Calesy Jan 20: - Q. G. B's morements continued. Saken down & C. R.C. at botel Doraine, New York, Friday Jan 15.

at botel Doraine, New York, Friday Jan 15.

a. S. B. interviewed Jan 15 (by reporter from M. y. Sun and another M. y. paper Am. Jones, Editor of "Geronautics," Mr. another M. y. Jane Am. Ludlow called on Wishard of My, Mr. Chanute, and Mrs. Sluyresant Tillot.

a. S. B., also Mr. and Mrs. Sluyresant Tillot.

Through Mr. Jones and Am. Sudlow was given the opportunity Jan 15 of looking over the briefs in the law suit of the Wright Brothers revens Herring and Curtiss. The papers were left lith me ner Tunday Jan 16). X Ow Sunday Jaw 16 Miss Lena Mc Ourdy called on Jan 16. Mrs. Grovenor at the litel Loraine Iras Interneined by refinter from D. G. Sun; also received a visit from Mr. Jones Mr. Ludlow and Mr. Duridge Tresident of the D. G. Ceronautical Society. Mr. Jones, In. Judlow, and Dr. Chamite dined out meat the hotel. Bus Trusium look dinner with either Phrs. Repley or this. Villat Mr. David Handuld left with his brother, who had stayed all night at the titel. He left early in she day for his brother's place expecting to return to Washington by The afternoon train Treturned The briefs in the Herring- Curtis case to Mr. Ludlow, who acts as coursel for the Spendman taulham in a suit brought by the Depet Brothers, which will shortly be neard EM. Sudlow wanted me to make an affidant to be used in The Vaulham case, and had actually prepared an affedant for my signature. I declined honever to be brought into the case. The Indlow was also anxious

at Inn Oak Thursday to have an affidavit from Mr. Douglas Mc Curdy and from Mr. J. W. Baldum . I stated that Quall admie them against it. We used not appear Isaid, unless the interests of the acrial Experiment associates new attacked On Innday (Jan 17) This, Granus and I had Jan 17. breakfast about 10.90. Went to the hippadrome for malinee performana at 2 V.M. Took dinner unt Mr. and Mrs. Gillet, and after dinner ment to the theatre and saw Holes Roberton in the Seemd Story Back Som of some such name. On Tuesday Jan 18) afternoon Jaw Mis, Sommer If by an afternoon train for amherst, Mass. Had dinner at hotel Loraine, read a morel, "Truston King at Maustarke" and left for Washington by the midnight train. On Hedresday Urried Washington (Hednesday morning Jan 19 Jan 19). Wilended meeting of Grand of Managers of Hatimal Geographic Society in the afternoon. An Jannett was elected Resident of the Hatimul Teographie Society in place of Mr. Willie I. More, resigned) and In Tittmann was elected like Tresident in place of Mr. Jannett who has become Tresident. There was a very full meeting of the Hoard, The largest I have ever allended I stimbe There mere 17 or 18 present, a photograph mas taken The meeting for the evening Star. In the evening had a large garhening at my house, 1331 Commeticut arenue, regular Dednisday erining meeting. a. 5,03.

1910 Jan 20 Thursday\_ at Join Oaks Wednesday evening meeting January 19, 1910,. Gresent: Dr. David J. Day, Inf. Wilcon of Cornell University, In Harry Chase, Mr. E. M. Varker, Prof. Clarke Mr. Helen Darton, Mr. Richard Gyler, Prof. Caymond, In. Charles Marlatt, Dr. Charles Wood, Mr. Charles D. Walcott, Mr. William E. Curtis, An. Welcome, Mr. Frank Carpenter, Dr. Frement Smith, Mr. Saundew, Prof. Love, An. Dand Handhild, Mr. Gellet H. Gravenor, Dr. a. G. Bell, Mr. Saffyd, Orf. Bauer, Mr. Sanborn, and Mr. Charles K. Cox. There were some others whose named me have fugotlew as & have reason to believe that about 31 persons me present. x Inf. Sore, chairman of the committee appointed & the Malinul Geographie Society to report upon the question whether anyon had reached the ninte He bline Have, stated that The sommittee had just received a letter find the Rector of The University of Copenhagen informing the Committee that The University had received the original note book of Dry. Ook, but that it contained also welly no first that he had reached the pile. It contained no bernations materies He also stated that it was now belief that Dr. Gook had intended to use The calculations of Capt. Loose, but that he had not done so, so that no Berratino at all had been presented. The University was not prepared to dennuice In Cook as a fraud so that The reduct of the Universely is simply not rd. Ine also stated that his committee new engaged in examining into the truth of the reported disently of the remains of Condree's balloon but they were unable at the present time to come to any conclusion upon the matter. Ihued There turn out to be any table in the report, Only Ine said that The Sweedish Minister here would advise this Generoment to send an expedition in search of the remains of the Undree Expedition Onf. Love mus in communication much the representative of the

Thursday 1910 Jan 20 10 Danish government at Montreal who reputed that he had no further information than newspaper accounts, but that he evoled notify Prof. Yore of any Justin developments. Ont. Ege was inclined to believe that there was some basis for The newspaper stones and shought that me might expect An. Willeam 6. Centis gase an amusing account of his and in Kartoum in the Soudan Se spoke of bouled with diseases and of a horse that had been insculated with all the different tropical diseases at the "beleme Labortony at Hearn Hell, England. He then introduced the Welcome Dr. Bell stated that Mr. Welcome was always welcome wherein he ment, and asked him to griefsme account of his work Mr. Weleme commenced by saying that we should not suppose that the horse referred to by My Curtis had been inculated unt defferent diseases. There see the horses There That Mr. Chitis had not seen; and That each horse mo inculated with a different disease, be spale of the Intension of the electing sieleness from the Congo region into other parts of Cefrica by Caravans, and the propagation of the disease through the agency of a species of testile fly. He also spake of the tropical deseases blessiminated by biting insects and by spicies of magnito. One of the results of the Karoun Salnating had been the fraction extermination of malaria from an Lartoum all the recent cases were imported. The tropical malaria had been indiginous at Karloum for generations but had now disappeared as a result of the efforts to conquen the mognito that sprend The Choease,

1910 Jan 20 Thursday at hugas. Kerosene oil had been fiely used refine the breeding places of the Inaquito and malarial flerer patients mue carefully furticled from magnitors. Their forcers had resulted in a hersening of malarial flerer as a local disease, the also of the floating laboratures he had established on the White Hile and Blice Nile. He answered numerous questions put to him by persons leas questimed precerning the hisects and mingritude that propagated tripical disdases. He stated that butymology, was so large a subject that specialist devoted their attention to groups of disects. His our speciality related to Thise that caused diseas in plants and that Dr. L.O. Afouard Chief Entymologist of the Defeartment of Agriculture who was not present was the specialist who had given most allentim to the insects that Caused disease in animals and man. Dr. Theriam thewspoke of a case of the Bubonic Plague that had occurred in an restated place in balefornia. It could not be traced to flegs carried by infected rats and examination should that the man had been hunting ground squirrels. That he had shot several and had carried them tack to his house in his The man nad I row afterwards taken ill and the Case. turned out to be one of Bubmie Plague. This led to An examination by the biological survey of the United States of which he was Chief of the ground squirels in that hart of California with the disency that a large proportion of the ground equinels me affected with Belmie Vague Experiments had been made by his Department which

cet ten Och Thursday 1910 Jan 20 had deminstrated that flees from these infected ground Aginels could pause the appearance of Bulmie Plague in other species of ground squirels, and in rats so that The United States plas faced by a perious problem how to present the spread of the Billinic Plague from Galifornia Through the rest of the United States Through the agency of infected ground equirely and rate. The disease bras liable at any shoment to be produced in human beings by the bites of flees from infected equinciles and rate at present the infected ground squirrels appeared to be empiried to a peninsula or promenting of land-having an area of several hundred paguare miles, and The bological surray mus navery aged in attempt to exterminate the glound squirrels in this area before the disease had had time to spread to the maintand beyond. If the Survey should fail to do this there mas Derious clauger of the extension of the Bulonie Plague all over the United States though the agency of ground equirels; for ground equivels me found decymber from Coleforma to the July of Mexico and June California Eastwards and northwards to The utmat limit of the United States and Canada already quite a munder of issolated cases of Bulonie Plague in human beings had occurred unitum the affected area, and in a large proportion of cases, in fact in nearly all of them The disease had terminated fatally. On eccuret of the vilulant nature of the disease the matter was pressing and important. The efforts of the Bulogucal Surrey are being directed to the destruction

1910 Thursday Jan 20 at lin Calo of the ground equirels at the base of the promentory of the esthmus of the peninsula. Beyond the infected area and between it and The mainland. It is proposed to "cut a sworke across this base and exterminate all the Equerela There and then contence to push the area boundary of extermination upwards into The frameutory or peninsular array from the mainland until been destroyed. A unique and difficult problem is thus In the course of experements the Bedogical Tursey has discovered a cheap frices for the involesale destruction of ground Equiries. Departing from the Custom of Loaking Igrains of com and the penals in a prisonne legluice containing Strictmine which takes a long time to cause the prison to be alsorbed by The grains, They have tried the experiment of simply dipping the grains into a musculaginous lequid containing stricthine without allenfiling to have the prison absorbed by the grains, This has firmed to be so destructive to ground Equindo that the separtment hope to exterminate completely the ground equinels of the infected area. The ground equinels are printed but cheek fruites. They collect the gratus and stuffer them into these prinches and all pot seek their hiles until the priched are full when they descend to they undegrand grammenes and discage the contents. It has been found Thrueses that long before the praches are full the florens begins to take effect so that The Equinela rarely, if ever, Ducceed in plaching their holes with the podered grain. Dr. Thermain told of an experiment that had been made refin a farm amlaining a few acres of land. The prisoned Frain had been liberally sprinkled over the surface and after the lapse of two hours the dead todies of no und squinels had reen freked up the expense of the pricess unled pubally not exceed 2 cents free

at kin Oak Murdey 1910 Jan 20 The Bilogical Tursey is now pushing this process across the base of the peninsula or firmentory beyond the areas of infection, and it appears to be to successful as to afford ground for hope that the ground squirels in the infeder area may be exterminated before the disease has had time to Jecape into the United Stales outside Dr. David J. Day spoke of rauns uses of Compressed air, and introduced Mr. Saunders who is at The head of a company engaged in utilizing compressed air for various purposes. Mr. Saunders then performed some experiments unte compressed air which he thought indicated that compressed, air might be used in connection with flying machines. He had a tunk of compressed air to which was allacted a netter tube cornected unita metallic tube of a few mehes in length, which passed though a hole in the center of a wooden board, circular in shape and Ishould think about 10 inches in diameter The end of the metallic tuke was flush with one side of the board. When the compressed qui was turned on it was found upon presenting the flat side of the board to the top of a cegar box that The lid, instead of being blown away, was apparently allraited to the board, adhering to it note great force and producing a musical time. He had found he stated that objects of considerable neight like small lakes could be lifted completely of the floor of the opparent attraction, His remarks in explanation of the Thenomenon were decidedly mixed up, but he endently had obtained an idea that I also have had that a film of compressed air blown radially from a norgle

1 trusday at Tuni Qu 1900 Jun 20 against the upper side of a flat surface or aeroplane usuald in effect, blow away a slice of the atmosphere above the surface excepting at that point upon which the jet directly impinged. The pressure of the atmosphere acting upon the under surface of the aeroplane would then push up the aeroplane untrut an equal pressure from above. He had the idea that in some such may the bereplane could be sustained in the air, although he did not seem to me to have very clear ideas as to how this Could be accomplished, # 1 Mr. Sainders sprike of the soaring birds, and suggested That They neve supported in This manner. He did not speak. of a partial vacuum above The bird's rings, although from By our discussion of this subject I have no doubt that this is what he meant. He spoke only of the effects of confused air and did not allude to the consequent rarefaction of a felm of air above the rings. Dr. Bell alleded briefly to the fact that he and others had deroted some attention to this publick and believed that There was something in it. He also said that the fate Onf. Laugley, Lecretary of the Tricksmain Institution had devoted considerable attention to the subject of the soaning brids and called upon Dr. Walcott, the present Leculary of The Smithsmin Instituter for a few remarks. Dr. Walcott, on account of the laterness of the hour Thought it better to say nothing. He said he knew northing about the soanny of the briefs but uncel be glad to make a few remarks upon another subject at some fulue meeting The meeting then adjourned into the dening rom. where An. Hanchild exhibited some lantern slides of a new plant that had been introduced into the United States by the department of agriculture, from which a delicious hose calmed jelly could be made. Speament of the jelly all present. I heard one grittenen say that it guara jelly

nt Farm Oaks. 16. 1510 fan. 21 Friday Engenies Continued Dutated by a, g. B. Saken down by \_C. mccl. Jan 21,-Om of the principal office of engelies, is to promote the Marriages of the desirable with-What Locial agencies Can be, landred to influence muriage. here me may gain an idea by Considering what Local influences interfere with marriage. The prudent man matries tale in life and has a Small family, the thoughtless and reckless dash into marriage at an early age, and have large families. Why does the Prudent man mary late in life? It is not because he does not desire to many at an carlier age, but, believe he can not consistently with The desirable quality- he passes Prudence leads him to Postparke marriage until he is in a financial condition to Support a

at Twee Oals Jan 21 - Huday here There we have clearly rescaled a means of Promoting the marriages of the deserrable. me Should arin to beller This fundamenal Condition to as to permit jhotu to marry, with-pendence, at an earlier age thankedo non. In a word we can indirelly promote marriage, by giving financial hears, For example - is the most desirable positions, Carrying with them good Salaries where the given my to desirable men. with manied men Preferred this would be an emperlant means of Rromoting the marriages of the descrable. Salaries deuxed from appropriations of kublic money. might well be used to promote the public good. The koling should be adopted - of giving government positions that yield Salarios Suppreint to Supeport a family to married men. withfamilie to Support, Juch positions vil she kuplie lence might well be made Dermenant for Luch men, and only lemperory websites or married men.

- at Form Order. muy 20 1910 Jun 21 of some har fast telephone of Their the Fistict appropriates 65 ands or day for the Support of Foundlings in the Foundling's Hospital. This is the average purcapitue apperpreaterm 365- Mis it 237.25 per annum. 1825 \$ 250 per annum would be 190 a good figue to adopt. 2190 \$ 237.25 a\$ 1500 clear Saley might be split up ess follows. For the man himself \$600 and hother is the for support , his wife \$600 and property support of 2 chats. \$500 and adult lepton for the lepton of 1500 myselm engine \$365. ve per aum at \$ 1.00 pm da, \$ 273.75 pu annuat .75° -. \$ 182.50 per amms = at .50 ---91.25 pm aurona at . 25 m. Who - 2500 \$ 300 But wife my 250 1500 chies my Ched ~ 250 250 800 Jan 21 Kend Merrians upuit y Beolyceus Summer -Fairchieds (1896) upnet un Externation Ment Laterduck and Report W 3 on the origin + principal it - important montyphin. 15

at Turi Oalse Jan 22 - Saturday -Dictation by a. S. B taken down by lo. R. C. Saw 22: The death of Mrs. Hubbard has revealed the fact that she has made no prinsin in her will to continue financial assistance to a Mr. Herbert de Fessen Dezensac. The family knowing that Mr. Lezensac had received regular monthly contributions of about \$50.00 a month for The last 20, or 30 years, first from Mr. Hubland, and after his dearth from Mrs. Hubbard; and knowing from The multitude of letters in trandiniting of m. Figurac Lound amny Mrs. Steelland's papers that This gentleman was ineapable of earning a linelihood and was entirely dependent upon the donations received from Mr. and This Stubbard, feet that Mrs. Stubbard's omission to funde for the support of Mr. Fazensac might have been accidental and not intentional. Mr. Charles J. Bell, representing the family opened up communications with Mr. Fazonsae in Staly which revealed The fact that he was still alive and entirely dependent for support on the contributions of Mr. and This Hubbard. Mr. Figensac forwarded to Mr. E. J. Bell letters received from both Mr. and Ans. Hubbard indicating an intention upin their part to look after the support of Mr. Segensae for life, (at least so Sunderstand for I have not seen the Mr. C. J. Bell not inshing to saddle upon the heirs of this Stubbard, an unknown man possessing no Claims upon Mr. and This. Heebland, excepting those arising from their philanthropic and generous feelings towards an imfortunate man who had arnised their sympathies many years ago; and yet not wohing to cut off

at Tun Oales Saluday :-1910 Jan 22 suddenly the sole means of support of a pensioner of theirs, who had received substantial assistance from them for at least terenty-fire years, determined to continue fenancial present and institute private inquiries to ascertain the financial condition of Mr. Hezensac with the object of reltinately dropping stopping further contributions should it turn out to be the ease that no injustice hould be due to a man for whom both In and Mrs. Hullard seemed to have feet the highest regard and consideration. Jezensac in Stab Though the agency of Messens. Munrol and Company, Bankers, Paris, so Mr. Bell asked Messes. Munroe and Company, Hungh to accertain, Theregle Their agents in Italy, in a private and confidential manner The exact circumstances of the man. Mr. Bell has received a reply from Mounta and Ompany, dated January 11, 1910, containing translations of two whorts made to them by their Italian agent, which they mark a and B. Copy of letter from menum and Company to Mr. C. J. Bell 7 Rue scribe, Paris, 11th January, 1910: Private and strictly confidential. To Chus. J. Bell, Esq., To of american Security & Trust Co., Mashington, D.C., Dear Dir: after writing to you on the 11 th inst. we Communicated with our correspondents in a houte Station city, and Mained from There a reply of which we enclose a translation murhed A.

Batend (y at Two Clarks 19W Jan 22 We unte again insisting upon the existence of the individual enquired about, and enclosing one of his letters to us. We then received the report of which enclosed translation is marked Et seems so extraordinary that we are now aslame our conespondents to put the case in the hands of a private detection agency, and we will inform you in due course of the We remain dear ser, Jon obedient servants, Company (Iwo enclosures) Copy of Report A a previous report is translated as follows:-The party you inquire about is unbennon at Maccagne, and your inquiry must certainly relate to some stranger who is perhaps staying temperauly noth the Marquise de Montesquion, wife of Mr. Fromletti, who is of English origin and also uses The name de Fezensac. The Marquise Trombette has resided at Maccagno about three years, and her ferrancial resources are unbennin the husband, who is a native of Verona, was formerly a Coptain in The Italian army, and is now in receipt of a pension of December 1909 Copy of Report B. Mr. H. de M de Vezensae das not exist in the house named. The numerous people I was careful to interrogate have alluded to a mystery which surrounds the quality and origin of the tenants of the said house. It appears that about twenty years ago there arrived in the locality a gentleman

24 who called himself Camillo de Sezensaes and that about 15 days afterwards he disappeared, leaving in his place a lady Camilla de Tezensac who is stated by many to be the same person in other clother. This .... person passed some years between Maceagno, mayactrico and Socarno, and contracted a mariage with Mr. Simbetti, Captam ni the Station Army who now recupies an auxiliary prosteon. She calls herself marquise & de Tezensac Inntesquin, of the princy family de Montlere, and boaste of an illustrious parentage which Cannot be verified. Her manners are those of a grand lady. However her means are not known. She appears to receive a monthly remittance from one of the principal Varis Banks, which dres not exceed 200 lire, and this is the only visible source of income except receiving often, but in timited numbers, English and Hemish ladies as boarders. It is said that she is an illigationate daughter of the king Leopold II of the Belgins, but this circumstant as you may well understand is not proved it is a fact Though that since the death of this prierign she has been in marning It appears certain that The Marquise is in Conespondence unt the Coyal Gouse of Staty, and with several political personalities of this country. I have not been able to find out any lung more about her. as regards the husband he is a good sort of

fellow destined to take only a secondary funt in such a distinguished family. It is life passes peacefully playing manille (a card game) in the cafes unto the druggist and the village Mayor

Mr. Herbert de Jezepsac, as Mr. and Mrs. Hullard Knew him many years ago was an efficient efferment young man, of delicate and refined appearance, and always well dressed. We have here a large collection of letters from him addressed to Mr. or Mrs. Hullard, probably about 100 of Them, mostly undated, and without address. He speaks constantly of his sister, La Marquise and her husband Jackeie. The hand writing has a decidealy femine look about it, and The language resembles that if a gushing and emotional girl, rather than that of a young man. In fact there was so much about The Herbert de Jezensul thut recembled a woman that questions had arisen more than once regarding his sey. Many years ago In. Hullard obtained a finition for Mr. Tezensac in the Term. Telefilme Company at Villating, Perm under Mr. William Ker who was there Manager of The Vittsburg Exchange.

Mr. William Ker now recalls a circumstance which he has kept to trimself all these years. It seems that serval of the employees of the Vittstugh Company started a rumor Gencerning the sex of Mr. de Hezensue and stated quite patirely that he was a unnew. This led Mr. Ker to consult Mr. Willand who suggested that The rumor should be set

this dretty scame

at rest by a certificate from a doctor as to the sex of the individual The doctor certified that he mas a man; and Mr. Ker Thereupon discharged the employees who had started the rumor as they still persisted within belief of the femine Character of the so-called man.

Mis Mary Duggan, who was children's murse in Mr. Charles Bell's family recalls the fact that many years ago when she was in Varis with Mrs. Hellard in care of Helen and Grace Bell, then little children, that Mr. de Tezensac visited Mas. Hubbard at the titel and played but the children. The extremely femine appearance of Mr. de Sezensac proused doubts in The mind of Many Duggan as to the sex of the caller. He une high heeles boots, like a noman, and there were many things about his attire that suggested the uman but the Thing that most armsed her doubt was the fact that Mr. de Sezensac pat down on the floor as a uman lead set, and cut out paper dolle for The children. Many Dieggan became so supreious that she ment to Mrs. Willard and expressed her belief that the man mos a noman in disquise to Mrs. Hulband's evident amusement. The circumstances are altogether so extraordinary that The family are much excited on The question of the sex and passed history of this dependent when the charity of Mr. and Mrs. Hulland, and are awaiting unto much Currosety the next developments from menore & Company. Mrs. Villatt, is to visit Italy shortly and it is proposed that she should hunt up In . Herbeit de Jezensac and call on the marquise Trombette, and insist upon seeing the two broker and sister together.

- Saturday - at Tungales Dictalini by a. b. B tatsen down by C. R.C. Jaw 22: The following is a proposed letter to Mr. Beduring about the new Olinis drime: Jan 22: Please don't forget that I pupose to try on the his The. form of a vertical ruader, placed, like a flag, upon hast relaxing to the Oronos deorne hur bed worked up into a flag pole above the center of the machine, the pole a letter y instrus forming the axis being at or about the finitedge W. Bedwin to a discussed of the rung-frice. Tease have this rudder and fine with Boldwin prepared so that we can try it after some experiments - he Curdy, and affinish han been made with the lateral rudders you have put in the 1316. Prewider. been at unk upon. The wit 9 My idea is to legin unt as few changes as possible The distaying will be measured unter form of the controls so as to test the effect of a uning piece after the aims midel with as few other in a private est conflicating emditions as prisible. the proposed on money (puru) The fint control, and the horizontal tail, honever, arth Jan. 22. might be made after the Crains plan itself, but you should be careful to see that the horizontal surfaces are flat, and not curred as in the main ring price. It is important also hat the lateral rudders to be attached at either end of the ming-piece in the first experiments should be flat and not curred so be placed in the middle of the machine should also have flat senfaces; or if of easier construction, should be correct on both sides, so that when we turn the rudder to an equal degree on either side, the effects should be equal and opposite. Such a rudder if placed at the rear untel be a virtual rudder, and a deflection to starboard

Saturday at hullet 1910 Jan 22 uneld cause the machine to be steered to starboard that is to the right hand side. If such a rudder should be placed away out in fruit near the fruit control, it reall have der opposite steering effect. a deflection of the sudder to starboard reneld cause the machine to luru to the put or left side. how between there positions the steering action of such a rudder to one side or the other uned be ril, and this is the firstin I want it to have. Then deflected the center of wind-pressure upon the balancing rudder should be as nearly as possible retrically above the center of pressure of the supi porting surfaces. Then when the rudder is turner to starboard there will be no tendency to steer the madine to me side or the other (fort or Starboard); and me may resolve the pressure of the wind of advance into two elements: (1) a brigontal element tending to tip the machine down on the first side to remedy a tip drumwards on the starboard side. I the other acting also living ontally along the parallel to the longitudical artis of the madiine tending to steer the headup. the resistance introduced by the turning of the rudder being central to the machine and above it will have a steering action pimilar to that produced by turning the first could at a positive angle to the line of advance.

Saturday Janer wortherfels I see no reason to doubt that this single balancing balancing rudders now employed, in remedying a tep of the machine without inducing a turn; and at the same time will support the head of the machine and present any diring lendency: Many advantages also will result when the machine enementers a side wind; and the head will be supported by it while making a turn. If you have not already commenced the construction of this central balancing medeler I wish you would do se et mee, as, in view of possible letigation much the Might Brothers at some future per time it would be important to use a form of lateral control, that could by no prome construction of the Glory let Tatent come in Their the scope of its claims. I have recently examined the triefs in the case of the Aright Grothers against the Herring-Curtis Company and Glenn H. Centiss, They make a great point of the supposed fact that the balancing rudders of The Centers Control have curred surfaces and not flat, although the Herring-Centers people claim that it is not so. Lany opinion the whole case may turn upon this point. The Dright brother claim that the lateral Valancing medden emplayed of Centin are concre on the under surface and comey above, cevel argue That even though the balancing udder on the slarboard side be turned at a positive angle to the line of advance, and the sudder in the first side be turned at an equal but negative angle, the resistances introduced at the two ends of the ming-frice would not be equal so that the

Saturday 1910 Jan 22 30 machine would turn to me side, and require the co-furation of the natical medder at the rear to remedy the defect by steering to the office side to keep on a straight course. this they argue brings the machine untur the scope of their claims. They argue that the much pressure upm the under surface of the balancing rudder when it is turned at a finitive angle to a contain amount wil be greater stan if the sudder was turned to that same amount at a negative angle so as to bung the wind pressure to bear upon the uffer ov convey surface of the control. It being new know they assert that the fressere refina concure senface is greater than upma convex senface presented They also claim that on account of the Concerty at the same angle. underweath the senfaces balancing medders the surfaces of these midders constitute "sufferting senfaces" even when in their normal, and sufficiently neutral friting of "the sufficting surfaces of the machine. The whole case will findally turn up on the questyon Asherter fas a marty of fact, the senjaces are flat or purfect. to surfaces of the lateral controls I have no means of lenning whether Centros enflage flator curred surfaces; but the Hight Brothers hure mode out such a strong fuma facie

est the Colos Salutter 19W Jan 27 case that the court has granted them a preliminary injunction against Certiso. The pase will now be heard upon its menits. In my opinion the whole case may turn upon the question whether, as a malter of fact, Certiss employs curred or flat surfaces in his lateral balancing rudders. It would be a matter of precaution for Baldun and Mc Coudy to make quite Deire that their lateral balancing rudders are aeroplanes fine and siraple. Hut surfaces that could not be held to be concare on the under side and comepalne. The brief for the Wright Brothers is a remarkally able dicurrent. I am not so neel satisfied that the Centers Case has been equally nell managed, The courts will undoubtedly construe the dright patent as bradly as fissible; and any defense against infringement should be based upon a clear difference of structure and function in the balancing rudders, no mere technicalities will avail for they will undoutedly infress the court us a spices of quibbling to avoid the Wight Palent. There is no doubt at all in my mind that however the Certiso case may be settled the Wright Brothers mil be after Baldini and Inc burdy the niment they altempt to make money by their machines. Let them profit y the Centiso Case by seeing that there latual controls are perfectly flat, and by seeining Capital to defend themselves lifne They sell Their machines. Anny funir the balancy rudden evolud by the a.E.a. do not at all come vutui the scope of the Wright patent; and this pinin is fittified by the fact that the Examines of the Patent office have not cited the Wright patent against our faint application, which it would be then duty to do

at Twin Oaks Set 1910 Jan 22 if they believed that our claims come mulin the scape of the Wright patent. There is no manner of doubt houser in my mind hat the matter will be contested by the Wright Exorters the moment an offertenity occurs. fun. 22. We have about 500,000 women tensturs in The U.S. murtically all unmarried. Hay a million of women, them specially trained to come for children, who are not mothers; and a large proportion of Them will never become nothers for they cannot marry without loving their positions, and their positions enable them to live a ful and mapurdent tipe, with nove comfact than would full their lot warry. Their selains prevent them from marrying, for it would manifestly not be public shool backers, during the child-bearing period. Consider following plan. It not care a children to the appropriate the appropriate the appropriate women between these appropriate their orentations would be appropriate their orentations would be another their orentations would be accounted their orentations would be consistent with marriage and their toloring and theorem operate to the the community that the propriet of the trained for the care a children women springly trained from becoming randoms. should be possented from becoming raviting. manind women by the the are & more to aper 45 should not be employed until they have passed the child-bening age (sy his are & 45') for them it would be manipully improper the for them to continue teaching the going while leadle to become mothers " widows with chiedlen to support, who are heteren to any of they resigne the aut of they resigne the are of they resigne

1910 fan 22 of Love tale - Ray It protest time by a more was under-extremente! (a) to present in ham, Du, 200,000 unmarried women employed as (2) If we make it illegal, how will their plans be filled? By 200,000 morning women who one 45 who have families Supposing ether marines woman, or widows, to have, on the annay, two children apiece me reach the following result. Plan 1. The salaries support 100,000 un movind women about Alun ?. The salaries support not only the lov, oor women, but also 200,000 children of whom They are the mothers. Can it be doubted that the 2d plane would be q have value to the welfare q the rare then the birst, In the proportion Trang The population is deprived of Remark hunted through of public through the enforced white an deficient through the training heart would are account of their training heart good mothers. 3. Work. Suverkijake marriages of The Kent for Com. on Engenies. and we described to near the objection of their of

funding -1910 Jun 23 ut Livin Oules 35 Lan. 23! Fairshied, Growing, & Masser, must have their eneming as Aut. Com. , her Ease. Com. , has a . A. D. J. S. &. to settle about The Theview, Feb. humba byins a new volume. assouthing Review Illustratul Informatein for advanced finger's advance Regul's Exparternel. Ellustrated Lugarmativie. Subjects: - Key - sen bish
Fourty & conservation. Yeshu luces \* apl men × June Sept x out Zeden. wo x xu. Jan 23: 2 get the at dinner tought. W. agkell, hor Funish. Fairbull, Zeohn. W. Gibert H. Grosveine, W. Yavid G. Fairchild, F. Mason, W. Eichelberger, W. Filbut H. Grosveine, hu. Yavid G. Fairchild, F. Mason, W. Eichelberger, W. Sichelberger, after dimer had business merting; The Sub. Com. 9 the Everative Com y The RAB. 7.5.8.

fan. 24

Mouding of Ivan bales

fan 24! Wach Hand: "It costs some people mout live Than

They are worth"— One y the best ways to where the cost of

Civing " To economise". 1910 Jan. 24 36 1910 Jun 25 - Zunden Jan 25: Received a visit yesterday (Jan 24) from a Miss Usher, of New York, a painter or sculpter who has made a bar relief of me in my way as a basis for a bronze. The had been guided entirely by a hhotograph and wanted me to give her a sitting in order to complete the Intaglio. San ner a setting yeslerday afternoon. Received a visit from Dr. Benjamin Billiarz an archiologist from England though he speaks the German accent. Told me he was formerly Secretary of May Müller. Been engaged in excavations at Herculaneum and came to america expecting to lecture upon the subject. In Keen, President of the american Philosophical Society of Philadelphia recommended him to come and see me. Quite touched by his appearance. He has the face and the eyes of a scientific student and investigator who thinks more of his worke than his means of liselehood I g ashered from him that america had so far shown little interest in archiological researches, In fact I came to the conclusion from his modest statements about himself that instead of meeting with success that he was actually in financial distress and had pularly been directed to me in the hope that Queuld help him! The Dr. houser, appeared to be so little accustomed to being placed in the brumiliating circumstance of asking financial assistance from a perfect stranger that he could not bring hunself to do so and left me to read between the lines. He spoke mly of his unk and of his desire to lecture and of his failure to meet encouragement in America. He states that he has sercul tunded phitographs and lantern slides of Herculaneum and Vompera int him here. His oppearance was quite pathetie and clame

at her Oaks 1910 Jan 25 -Tuesday to the conclusion that he was a gentleman in distress, me of these free scientific men who are unable to look at the practical side of life. I winted him to come to my next Wednesday evening where he might meet some of the scientific men of Washington. They We can then size him up and me may enable him to give a lecture upon Heculaneum if we find that he really has material of value. He looked ill and seemed to me to be reduced to actual want though he asked for no financial assistance and lould not bring himself to speak of that which was if the first emsequence to him. I may be mistaken in my estimate If she man, but I was so touched by his appearance that I total him before he nent away that I judged from what he said that he was in actual need and gave him assistance untient his asking first. He was so neceme that he could not speake for some moments, shook me namely by the hand and altigether ceted as the man I believe him to be. If he is a gentleman and an archiologist he will undailled, turn up at the Wednesday evening meeting. If he is not I have seen him for the last Time. O. G. B. X Last night (Jaw 24) retended the armual Banquet of the Alumni of Dastmorth Ollege given to the new Tresident of Dastmorth, President Richalo. There mas a large garhening at the New Willard under the Chairmanship of Mr. Barrett of the Brueau of american Republics. The meeting was addressed by President Taft, by the British ambassador, by the French ambassador, and by speaker Cannon. Speaker Cannon in the course of his address seemed to single me out. I now somewhat surprised that instead of addressing his renarks to the company, generally and to the Chairman or President he seemed to the laking at me and addressing me emphasizing his remarks mutup-lefted fenger. I glanced to my right to see whether there mas any me near me to whom he was speaking. The French ambassager was bride me on me side, and an unknown gentleman on the other and et really looked as if I was the person he was addressing. In a lette while he made it very clear by addressing me y name

at Inn Oal & render 1910 Janes He said Mr. Bell, Idan't know whether you are a College hed man or not, but that he used take me as an example. of the influence of the scientific man upon Congress, He Then spoke of the appropriation that had established the astro-physical Observatory; and of the appropriation for Langley's acrodrome, and said that he had guen his suffort as Speaker simply because I believed in them. He didn't beun anything about the subjects brunself but trusted the scientific man. It was not so very long ago that members of lingues me taken to task for the Clar Departments appropriation for Langly's arodine and it used here pleased from Inf. Laugley, had he been living to have heard the Speaker of the House of Kepresintatives now Claiming Credit for the fact that he had assented in gaining that much maligned appropriation at the same of mas amaderasty astmohed to find that my interest in the matter had had onything to do with the resdet. a.b.B Jan 25: Vresident Fields of Dartmouth is to dine here with us to night this evening and spend the night at Tevin Cales. Cetters fersons expected at dinner are:-Mrs. Scidmore and Miss Scidmore and four others including a brother of m. Fairchild and his wife. a.C.B. X

at lung Ods strusday -Jan 27 Jan 27: Lest Tuesdy evening (Jan 25) we had at dinner here Mrs. Scidme, Miss Scidmore, Mr. and Mrs. Kirshener ( Mrs. Kirshena is a sister of Mr. David Haichild) Mr. and Mrs. Wilcome (Mr. Wilcome is the originator of the Wilcome my Jamet bacteridogical laboratories at Hearn Hell, England, Kartrum, Ofnea, and the floating laboratories on the Blue Nile and White Nile for the sludy of tropical diseases), Mr. and Mrs. Hancheld and Mr. and Mrs. Bell. President Michela mas unable to be present. a.C.B. Wednesday evening fan 26 Jan 27: Last night Jan 26) There was a large attendance at the Wednesday evening meeting including a number of new men so that Ihnay, not be able to give the names of all present: among those who attended were: In. Dravenor, Mr. Handuld, Dr. Bell, Mr. Kashbun (asst. Leculary of the m. Lamelt Smithsonian Institution) Projection & Clarke, Dr. Merdne Gell, Ord, Bauer, Gen. Sternberg, Sen Fellebury, Dr. Stiles, mr. Mrs. Kirshener auslin of Mr. Forelaid mes also present. Reichardt (recent, returned Bokara) Mr. Ripply, (faster in Law In Smith of the Fish Commission, Mr. Musely, Lecilary of the Inter State Commence Commission, Mr. Hers of the Geological Survey, Mr. Kirshener a lawyer from Kansas City brotheron law of Mr. David Faircheld, Mise Waddel Im Tyler, Prof. Raymond, and a number of others whose names I forgett (Mr. Francheld perhaps may help me to reall the names. Admiral Villabury spoke of his work in deep sea sounding and gave a description of the funers and apparatus employed in his remarkable exploit of anchoring his ressel in mater having a depth of about 2000 fashinos (about 2 miles). Such an administ had never before been accomplished now since. I be spoke of the effects of pressure at great depths. at a glass now crushed in by the pressure of the water.

- Tursday -Jan 27 depite he was unable to say. Forms of angles fish which had been taken at a depth of from 1000 and 2000 fashions. Below this depth down to the very lowest depths reached other forms of life had been dredged, byinges, The angles fish described lived at such a depth in the ocean that there was little or no light, the seen being unaste to penetrate shousand fashins of water to any quat extent. These deep sea angless here fromded with the hisual fishing rod extension upon the rise found in the sunf shallow water angles, but the lette dangling surface of skin that formed the bat" in the common angled had been modified that a bull which had phosphoescept qualities. They really carried a little lantern at he end of their fishing rods! The small fish attracted by the light berne within easy reach of their copacinis jaus He described several forms of the deep sea Anglers, all of which were provided with landerns. Dr. Smith: gave some account of the work of the Hist Commission. and spoke of the Sargasso Meadows found in Mid attention Consisting of hundred of equare miles of floating seaseed -the eargassum need, and of the curious fish that inhabited The pargasseem meadous. Occasionally large masses of the Day assermed be ame detacted from the main fortine and diffed into the Caulcan Sea and Guef of Mexico, and also reached the coast of the United States. Occasionally large manes of sargassium need appeared in Benzard's Bay from which stronge fish had been taken to the Itish Communication at Roods Holl Dr. Gel: spoke of a form of Anglu fish found inhabiting the sargasoum seed and of a fish which could inflate itself with air or mater like a balloon so as to be too large to be swallowed by larger fish. Dr. Bell: spoke of a small fish locally known as The puffing hig" sometimes Caught by small brys on Martha s

at Tuntal Rusday 1910 Jan 27 The loop used hold the fish in his hand and then stroke it or tickle it when it used puff itseef up like a small ballion. He would then throw it rifer the ground and stamp upon it when — bang it until go like a burst paper lag. Dr. Gill gave the scientific name of the fish which funed to be much longer than the fish titself, indeed so long That I do not sentine to reend it here. He also spoke of somewhat semilar puffing fishes which were found in the Meditirumen on the coast of Egypt much afforded great delight to the small boys of that country who were accustomed to stamp their feet upon the blown out fish for the pleasure Mr. Garnett de new President of the national Lographic of hearing the report of the explain. then made a few remarker. He mus follmed & Mr. Reichardt nho spoke of Bokara. Mr. Moely, Secretary of the Liter State Commission spoke of the great fatality among railroad men copenith ammy those engaged in Coupling cars. His statistics mere very extraordinary, but I cannot lishe to give any intellighte account of his remarks. If I remember rightly he said that among 32,000 railroad employees orgaged in trandling trains there me about 12,000 men kelled or years ago for he should by statistics and by graphical diagrams that the efforts of the Jule State Commerce Commission to reduce accidents on railroads had been followed by a marked diminute in the projection of men injened by coupling cars. as I remember his graftweal diagrams it seems to me that the number of men Pailed and injured on railroads has been, and is,

1910 Jan 27 Thursday at Tim Oak Constant, increasing although the number of accidents from coupling cars is dimensioning. The laddress was a most interesting one and of quat importance. Dam only sorry that Mr. Cop was not present to make note of the points of the address for the linefit of the Recorder. Mr. Dand Hambield: presented a form of sea-kale which had been introduced by the Depentment of agriculture. It could be cultivated as easily as the common callage and was believed to be a new o valuable new food product. Specimus of the sea kale new serned up at supper both raw and croked and new much appreciated of all fresent. a.C.B. Dr. Stiles also made an address upon the horte unun disease and the gift of one mullin dollars by Mr. Wockefelle to belf. lowards exterpating the disease in the South. The namey was to be used largely in a compargn of education in the south to teach the beach to che to do to avoid the disease and to curent. X 8.58 11.06 06.58 19.74 26.32 . 4606 32.90 v4 39.48 46.06 4.606 ·394 ·3290 ·0650 52.64 59.22 65.89 10 1.974 0.658 2.632 W. + W. Churt Bell called here This evening after dinner.

at Twin Oaks Jan 28 - Hriday Dietation by a.G.B. taken down by C.R.C. Tractical Ougenies. In attempting to formulate practical plans for the improvement of the inheritable qualities of the human race, and important elementary principle to lear in mind is, that persons having desirable qualities should marry and have offspring. It is also important that the desirable should marry the desirable so as to increase, in the offspring, the desirable qualities possessed by the parents, for the desirable offspring of desirable parents have a greater tendency to hansmit their desirable qualities to their descendants than their parents had. The problem then for us to consider is how to promote The marriage of the desirable with the desirable. Cublic opinion is the great agency that must be evoked to effect this. It is first necessary to create a public opinion that the interests of the community demand that The desirable should marry and leave of spring; and that The desirable should choose desirable partners. Several questions at once arise: The are The desirable? and what social agencies can be evoked to cause them to seek one another in marriage. Then again what agencies pair be evoked to promote marriages in general, and the maniages of the desirable in particular. I shall first examine these points in a general way, and then take them up in detail. The rast majority of the community are normal persons presessed of desirable qualities in a moderate degree.

- Friday . 1910 Jan 28 at hun Cale They represent the average type of the race. The desirable, who possess These qualities in a much greater degree than the average, are comparatively few in number; and are scattered through the community so that comparatively few of them are found in the same place or benow one another. The necessary preliminary to marriage is personal acquaintance: So that any plan to primote the maniages of the desirable with The desirable should include some plan for making the desirable personally aggrainted with one another. It may be well to pause here a nument and emside this point as it really lies at the root of the difficulty in promoting The manages of the desirable with the desirable. Under present conditions few desirable persons have any extensive acquaintance with equally desirable persons of the opposite sex. Cerlups this may be better undertood by considering some inheritable quality which every person will admit to be a desirable quality, which should if possible be increased and intensified in the community at large. Good health, and a good constitution and long-lived ancestors may be taken at markes of a most desirable inheritable quality Sake the case of a man in perfect physical condition who parents and grand parents have lived to a good old age without The impairment of their faculaties. Then all should recognize that the interests of the Community demand first that this man should marry and have offspring; and secondly that he should choose as his partner in manuage a uman having the same characteristics But where can be find a woman in perfect physical condition whose ancestors lived to old age without the impairment of their faculties.

at Tur Oales 1910 Jan 28-Hriday to accept a weak and sickly man if he had wealth rather than a man poor man who otherwise would be personally desirable. It is in every way in the interests of the community that public sentiment should be so modified that the personal fittness of The sintor should be the first consideration, and his financial condition be a secondary matter. The physical condition of young men and umen is a matter that can be observed, but a benowledge of the ancestry is not a matter that comes directly under observation, and yet it is a matter that should be held, by public opinion as of import The interest of the community in marriages, relates not so much to the manages humselves, as to the results upon the offspring. It is the past that forecasts the feeture. It should be universally recognized that the marriage of persons who have had strong, healthy, vigorous, long-lived ancestors is more likely to be followed by the production of offspring having the same characteristics, than in cases where the ancestors have been short lived or sickly. Here it is a little more difficult to see how to promote The maniages of the desirable who had desirable concestors with one another. The sentiment may exist; and yet on account of the absence of general terrolidge relating to ancestry, it may not be able to exert much influence It is a mere matter of chance whether any of the desirable girls with whom a desirable man is acquainted have the right kind of ancestors, and the chances are against it. The young men , and young umen with desirable ancestry are probably very much scalled among the community, and

at Turn Calos Triday 1910 Jan 28-48 rarely tenow one another. Jet they must know one another before marriages pair be contracted between them. Spere then is the problem: How to make them know one another. This difficulty is not limited to the case of desuable ancestry; but includes all cases in which the desirable qualities are not obvious upon inspection. If me can device any plan for bringing together persons possessing such qualities, which is to say the least, douttful, it would be of the greatest importance from the point of view of Ougenies. There is one point in this connection that affords ground for hope. Geople do not object to having their excellencies rennen: It is their deficiencies or deffects that They desire to recep from public observation. For example, while people uneld naturally object to having it tennin that ancestors or close relatives were insane; few people would have any objection to the publication of the fact that all Their placents grand parents and other known ancestors had lived to a good old age in that impairment of faculties. Inour public schools and colleges it is quite the Custom to record the physical conditions of the pupils. There remed be no objection on the part of school or college authorities that The records of the gymnasum should be examined by competent persons or that statistics relating to physical condition should be published. The only objection that could be raised

19w Jew 28 - Triday deviled be to the publication of names. But here there ended be little objection to supplying competent students with the names and addresses of pupils who were remarkable for their good physical development so that an enguing into their ancestry night be made. The parents and friends of such pupils unted in a large proportion of cases be willing to give information Oncerning The ancestry if the names were not to be pullished; and the study of the ancestry would reveal in a few cases long-lived ancestors on both sides of the parental tree. The families, in such cures, as a rule, unde have no objection to letting it be tennen that Their children came of such excellent stick and in most cases they much be pleased, rather than offended, to have the names and addresses of their children published This is all me mant. These few cases alone are the ones that are important from the point of view of Eugenies. I do not think that there until be much difficulty in Ataining permission from parents and friends, to the publication of a list of names of pupils in an public selveds and colleges who have acceptimally goodancedry. as a general rule, I thinks, That faients and friends uneld not only be glad to see the names of their children published in this connection, but would also be anxious to see the names of other children who possess the same qualifications. Take the case of a fraient, say, John Smith, whose some belongs to the clesiable class. He sees in the same list Mary Brown, Jane Robinson etc., and If any of these girls are terroun to him personally or become terroun to him in

at Tu. On Fireday Jan 28 1910 forcess of time, the mere tenneloge that their names ap-freared in the desirable list will influence him in let-50 ting his som become acquainted with Them. all plans at first are impracticable until Their delails have been unked out; but I thinks that we have here a very promising plan which should be further rugued into. a.b.B. at Tullas 1910 From the B.B. Reender Vol 15 fr. 457 Jan 29 number of District 4.73 13.86 17.47 20.83 30 now

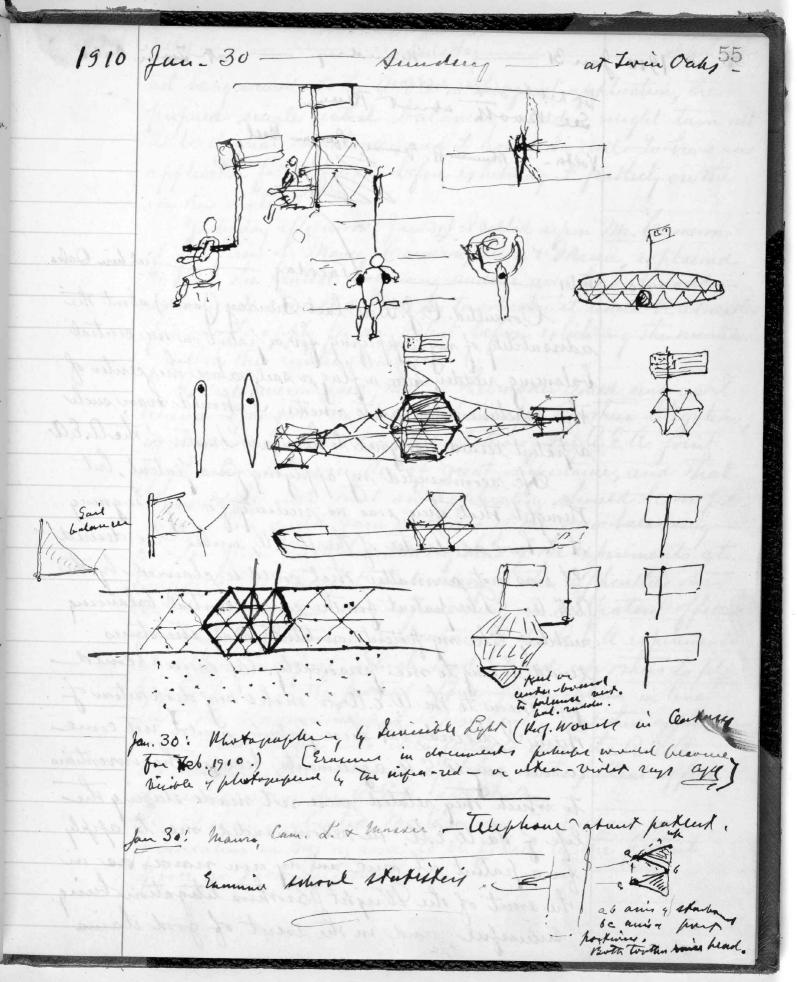
Jan 28 at Tuni Catho 134 changed 143 35 30 311 15 13 58 204 225 42 Jan 28: W. + W. Styresant Philot on their daystu Rosalie stoyed her our night, Jan. 28: Consult Supt of Mubble believed as to The nature of the statistics that can be collected from advolo. The inheritance a good health. List of public samely hubble schools showing demonstrate physical development in the conceptry. List & pupils with the having long-lived anushing. We can get from the father, an aren't of his house or suffer From the mother, an armit of his points & golfa Thus me can obtain inform about the hunds, gether, o-Attales of children.

of June Fare hour of farmer Jan 29 1910 52 for Robbert H. Greener Pris Rawloile & George ling a ling Kell Mais, Bry agent Try its prenticability on our own formity first. Rupan The statement thithing he the famin Brunn Fathers father limit to ald gaze? This Fris forther Forther norther no mother's public no dear 62 mothers mother no. d. w 37 Ferhand other no John muchi aus mother from Mes We Hab - 9 themale Pew Win - 9 Gun Musey." ALL W Stata for mi atdurk Laurahy. Christmeth darkens Forther name on for ( mis mo. Wifi adarpship Unstands gaptester Fatter's mother Follows Molling for me for mo forting mirate for me no ho my tos alu con no con

1910 Jun 30 - Lundry - at. Leven Delles 53 Jun-30: hvot 4 The books belowing to har therbund hum hum divided among the family. I restill have the Think this one four to Espay (not thellatte) and the Dether to grace (mis grave bell). Spind the pollowing enteries & Berths Municipy deather in the Kiber. In Bitle Tower & har Bellot. Maring: At hur with Wednesday Evening Oct. 21st 1846 by
Rev. S. Skinner, Gardiner Greene Hubbard & Justicele
Michaely. Buths: Surline greene Hubbard born at Cambridge, August gerkrude hurcer hickwide born at her Bark, Robert In Charly Hubband born at Koston march 12th 1827 Secenter 9th 1847. - noue recorded. The above recovers are believed to, W. A. E. Bell to
the handwriting & her mother gertmen heren (h. Emy) Hattay

be in the handwriting of the mother gertmen heren (h. Emy) all their property of her special contract of the spec Februar H. McCardy -

as Junio ark. Senday -Entris in Family Rible Taken by Kniss grave Bell. 1910 Jan 30 -Merranges: Survive Green Hubband To Guturde Mureer McClusdey her fork October 21st 1846 by the Flev. Mrs. H. Skinner. Sanding greene Hubband born at Cambridge Augt. 25th 1822. Butrule micer meluny born at hew forte Robert Melendy Hutband, born at Brokens Jeunber 9th 1847 Bertrud hickory Hubbard bown at Breton Mubel Judim Hubbard, born at Cambridge hov: 25. 185.7 october 1st 1849 Roberta Wolcott Hubband, born at Cambridge June 4. 1859 grace Blatchford Hubbard, born at lawhedge oct 9 1 1861 marian Hubbard, brun at Cambinge april 9" 1865. Robert McCountry Husband died at Boston October 11th 1649 aged 1 year 10 ms and 2 days. Seulles: (all These records are believed by W. a. g. Bell to be in the hand-writing of his grandfulture W. Robert H. McCurdy - aft J



at Twen Outer. 1910 Jan 31 - Monday Et heletograph restore Theren See Booth about Theren Volta - Whumstorff, granne, Berham Bell, Tuesday - at hin Oaks Consulted C. J. Bell last Sunday (Jan 30) about the advisability of my applying for a patent on the central balancing rudder, like a flag , a sail, above the center of The machine; and as to whether I should have such a fratent issued assigned to him as Trustee of the a. E.a. De recommended my applying for a frateut, but Thought that there was no necessity for my assigning it to him as Inistee of the a. E. a. mess Iso desired. It was not a matter that could be claimed by the a. E.a. The patent for The single central balancing rudder, like my patents on tetrahedral structures record belong to me personally. Of course could give Them to The W.E. Cl for make any disposition of Hem I desered, but these patents would not come under any Q. E. a. agreements; because the inventions to which they related new not made during the life of the W.E.a. He recommended me to apply for a fratent at once in my own name as in the event of the Wright Sisters litigation being successful; and in the esent of good clams

at how Coles not being seemed to the a. E. a in the joint application, The proposed single central balancing-rudder might turn out to be of great importance, and it would be well to nare an application filed for it before exhibiting it publicly on the ice this uniter. O Yesterday afternoon (Jaw 31) I called upon Mr. Cameron of the firm of Mauro, Cameron, Lewis & Massie explained to him the central balancing rudder and how it would norte and consulted him as to whether it unde be advisable for me to apply for the patent before exhibiting the mention frutherly this winter in the ice. Mr. Comern said, That if The widder would work as I believed it might, in view of the Uright Brothers litigation, and in view of the douttful status of the a. E. a. forsit application be a matter of great importance, and that it would be well that an application should be on file before others could gain an idea of the new balancing reedder from fullished description of the experimento at Baddeck. He thought that many of the difficulties the a. E. a applications were experiencing in the fratent office arose from premature publication of the a. E. a experiments at Hammondsfort, which had stirred up orhers to file applications in the patent office for inventions in line with the Hammondopart experiments. That these applications applications the occasioning delay in the putent office decisions upon the a. E. a. applications. I then instructed Mr. Cameron to prepare an application in my name to be filed in the patent office as soon as possible.

- suerday 1900 trebi In order to help him in surpaine the application I have primised to unite a description of the central balancing ruelder and its mide of speciation. I took him shat I nas averse, upon general principles, to applying for a fratent upon an invention that had not yet been suc-Cessfully reduced to practice; but he assued me that the patent office held, that an application for a U.S. fratent emetituted a reduction to practice. I stated that see I would try the new balancing denie very soon at Baddeck on but it was probable that actual experiment would lead to some modification in The construction, second which might lead to the admissibility of changing the or modifying the claims, and that I knew that difficulties uned arise in the patent office if new matter was injected into the application after being filed. Mr. Cameron replied that this defficulty, if it arme, could be easily met, by muldrawing the ap-Prication, and filing a new one, which should include The new matter claimed . a.G.B. Heb 1: Mr. David Faircheld has been out if sorts for the last day or two and is confined to bed \_ nothing serious. He was unaste yesterday (Jan 31) to attend The neeting of the sub-committee of the Q.Q. P.1. S. D. which had been called to meet at 1331 Connecticut axence, yeslerday (Jan 31) at lunch. The meeting was therefore portfored until his success. He mile be unable to cuttened the dinner to be given by me to-night at lo ormecticut arenue to the Brand of Managers of the natural Deographic Society. als.B.

1910 at Ium Cales Feb 4: - Gave a banquet Tuesday (Heb. 1) to the Board of Managers of the National Geographical Society: - Present Mr. Sannett, The new President of the Society, Mr. Titmam, The new Vice-President, Mr. Willis More, the returning President, Dr. MacDonald, Gen. John M. Wilson, Dr. C. Hart Meriann, Mr. John Joy Edson, Mr. C. J. Bell, Mr. Gelbert H. Grovenn In Double, Inv. Questin, Secretary, Mr. Blount, Mr. Eichelberger, Mr. La Gace, Mr. Kauffman Viol. J. Howard Ine, Mr. George Otes Smith, Dueta of the Geological Survey, Commander Teary, a. G. Bell admiral Villabury Prof. Fore, on behalf of the sub-committee appointed to examine into the question whether anyone had reached the north Vole before Commander Yeary had done so, reported that There was absolutely no evidence that Dr. Cook had reached the The, and the committee asked to be dicharged. In my chiamin it was a most disappointing report going no further than the report of the Copenhagen University, amounting substantially to the verdict "not proven" I had expected that Inf. You's committee would have submitted positive proof, in the form of scientific observations that Cook had not reached the Tole It fried to be a mille and naturepart amounting simply to "not prinew". It was accepted by the Board The medal going given to Deary he should be named as the "discover" of the Merth Vile. Commander Teary shew addressed The Board on the subject of Untaretic exploration and proposed that the National Geographic Society and the Teary Cretic Olub should fourty send an expedition This year to the Centarctic Continent and attempt to gain the South The for america He stated. That the Leary Crotie Club would be glad to consulutate

1910 Vtel 4 at Iun Ochs Huday the thought that, by taking advantage of the fact that we had a ressel the "Rosesell", which was shecially equipped for arctic unks, are american Expedition could be landed upon the anarctic continent This year in time to compete with the British in the discovery of the South Pole unt good purposets of arriving there first. As the landing under be made upon an entirely unknown front of the antaretic continent the expedition uned ascel in an extension of tunledge relating to the antarctic continent even if it did but reach the Orle. The proposed Government expedition could not start before next year, and would not include among its objects the discovery of the South Pole. It should unged an independent american expedition to start at once It was the general sense of the Board that such an expedition as that outlined by Commander Jeary should be sent out by The National Geographie Society and The Teary Cretic Clieb if it could be done intent trueling The surplus funds now possessed by the Society and the finance committee was galled whom for an opinion Mr. C. J. Bell, Chairman of the Genauce Committee stated that he believed there used be nodifficulty in raising the amount required of by voluntary subscription if Commander Lay himself showed head the expedition; but That it uned be very difficult to do so unless a leader showed be selected who uneed Command The Confidence of the Sreety and the public. Commander Jean replied that he served not lead The expedition himself; and that he was not prepared, at me present moment to name a leader. The firstin of om. O. J. Bell seemed to be generally endorsed by The members of the Board. The meeting, bring informal, could not take any definite action, excepting to refer the whole matter of an Conartie expedition to the

at hun Out Huday reb. 4. 1910 Research committee and to the Arriance Committee for recommendations to be reported at a specially called meeting of the Board. The banquet, which was held at 1331 Connecticut areme, mad a great success, and will be long remembered by These firesent. a. G. B. Feb 4: Wednesday evening meeting Heb 2,1910: Gresent: a. E. Bell, Dr. Dall, Mr. Gallut H. Grarew, Prof. Newell, Prof. Raymond Mr. Darten, Dr. Irrung, Dr. Kohe, Mr. Welcome, Sen. Stermley, Mr. By m. Mr. Bryce, Mr. Putnam, Mr. Cox and two others, Mr. Co harles March, and me other. Mrs. Gillet H. Grarenor and Mrs. Charles March were also present. Mr. Grevener spoke of Commander Jeary's proportion to the Rat. Geog. Sicrety to send an expedition to the Antarctic Continent I'm Green said that an account of his proposed expedetin mas given in the Evening Star that evening (Heb 2). He said that Commander Deary would not go himself, but that the name of Capt, Basilett had been suggested as the leader. In reply to the Spection that Capt. Buillett was a British subject, Mr. Travenor said that Capt. Bartlett prepared to beenne an American citizen, and had taken out his first papers of naturalization. Mr. Grassen also referred to the expedition which had been sent out last year of the nat. Leg. Sniety to explore the glavers of alaska. Da Dr. Dall then spoke upon the glaciers of alaska and referred specially to the muy glacier which had receded several miles within the last few years. This he stronglet had been due to serve earthquakes in alaska which had shallered the protouding longue of ice which had been pushed out several miles into dup nater, shis longue of floating ice, although opparently forming

Feb 4. a portion of the solid land because covered with earth and stones in places and even bearing on its surface living for trees, mas really floating ice with deep natur below. It was subjected to great pressure from the nature which supported it, and the free extremity we bugs mere constantly breaking off. The earthquakes That had occurred in alaska two or three years ago had shatted the floating ice for several miles, and the fragments had dufted off in the form of ice tergs. This accounted for the fact that the extreme end of the muy glacier had apparently retreated for serveral miles, although there had been no change of Climate. The fact was that the glacier was advancing at its usual rate, but that the probuding frontine which had been for so many years solid ice with earte, stones and trees upon it had disappeared, leaving a deep fixed of open mater. There had been no real retreat. Dr. Bell then called attention to the Vincht-Ballinger entrong about the coal fields in alaska and asked Dr. Dall for information concerning the coal deposits there. Dr. Dall then spoke of the great extent of the coal measures of alaska and that stated that though roleanie action a considerable firtin of the bitimuminos coal had been corrected into anthraute coal of the finest description, He stated that My Darton of the Geological Turney had who was present had been making a special sludy of Coal mines, and that he might perhaps he able to give further information upon the subject In. Darton said that he was not familiar not the Londitions in alaska, but that he had been studying the ceal mines of Verm. and Mexico with the Syset of determining the causes of the disastrono explosions that had account there He thought that the information collected by the Gological Surrey mued enable us to deserver dangerono conditions in time to present loss of life from These territe explosions

Finday -64 1910 Heb-4 He stated that the strate and never much distirted and that the punts of flexure cracks had occurred which gave off gas in varying proportions. He spoke of ne mine in which the coal definit formed a saucer-like depression; galleries had been carried through this defression almost horizontally and Then had been carried up at a steep angle to a higher level where again hirjental galleries existed. The gas formed in the lower levels gradually found its way to the upper level and it was in two upper level that the explisimo took place. an explisem once sturted mas apt to be propagated by coal dust raised in the mine by the initial explaiar so that an explain once started undhe hipgorted though the whole mine. He stated that raises gases me given off by the coal and specially sporke of the gas CO which could not be delected by odor and mas not by itself explosive. Then mere juguently sereme by this deadly gas without knowing what had happened to them. Thirty two mew neve taken out of a mine last year in Variconer who had been asplipsated by this gas. The effects had been so deadly that men who had emerged from the mine apparently uningued died a few hours had carried his brother from the mine to a hospital and had been succurted himself, dying within a few hours. Dr. Nohu nas thewasked as to the effects of this gas upm the human body. Dr. Koter did not renow precioely what goo was referred to or its effects when the human system, but he said that coal miners generally mere affected by a disease of the lungs caused by the presenting Coul plust in he air shay be a stud.

Feb 4 They mere very subject to tuterculosis from this cause and fast mintens had revaled the fact that their lungs mue black from the presence of coal dust. Coal mining was an occupation dangerous to life, land that they neve subject to raining forms of disease affecting the respiratory frassages and the lungs. The fatalety however from luterculoses was not nearly so great aning coal miners as among men who waked at polishing wint emery while. The particles of emery proder breathed in by There men in the course of their operation produced great irritation in the lungs leading to many cases of tutorculosis. He said of remember rightly that about 50% of the men who waked unter every wheels suffered from bulerculosis from a greater or less Lew Sternling then exhibited a graphical chart showing the death rate aring the white and colored fropulation of the District of Chimbra for a great many years past. The death rate, from this cause, especially among the white population should a progression diminutear which was specially marked during the latter years #896 1906, 1907 and 1908. In fact if the lead to the total elimination of tuberculosis from the District in about 20 years at least among the whites. The death rute from tubarculosis is about time as great among the colored as among the white population, and has been less subject to control, but even in Their Case the diminution has been most marked and seems to be progressive. These results have been reached by treating tuberculesis as a contaguio disease. It has beenne the custom to isolate patients as much as possible and treat them at a hispital instead of that their our homes, as it has been found very difficult, especially where ignorant people are concerned to seeme the necessary santary conditions which are so easely provided in a hispital

Findey-Jack 4. resulting from immigration. a mexture of nationalities of the same general type was emmenty farmable to good health and general robustness of constitution, but the mexture of distinct races as in the case of millato's and half-breed indians showed deterioration of Physique, be trought the question of sestricting immigration to those races, which murgled beneficially with our people was a most important one. The modern american formed by the Hending of nationalities rather than races was the best type of man that had yet appeared upon earth. Mr. Sutnam gave an account of his risit to the Philippine Islands were he had spent six years in the service of the Coast Survey. Dr. Bell, on behalf of Mrs. Fairefield who navinable to be present announced that Mr. Handried had furnished for The enning anther new food product which had been introduced into the United States from Spain. This mas a species of grass known as chufa which love nodules on its roots like mits, but of a soft consistency. How these undules a milkey lequid was expressed of having fa sweetich Character and having a nully flavor. It formed an admirable basis for ice cream. The ice cream served trad no mulle is cream in it but was composed exclusionly of the fine of the chufa plant diluted mut nater. Suffer was Then served and the meeting adjourned. a.b.B. Heb 4: Last night (Feb 3) Da. Bell gave a lecture upon the early busting if the telepline before a society composed of men employed in the telepline business. He gave reminiscence of his childhood and continued his account of the development of the teleplane up to the Centermial Exhibitional Philadelphia in 1876, and the speech of Sir William Thompson (the late Lord Kelvin) at the British association for the advancant of Science in England that same year about 200 persons me present . a.b. B.

Feb 4: Preceived last night (Feb 3) a note from Mr. desael.
Sudlow dated February 2, inclosing a copy of an application
for a fatent which Mr. Ludow had filed for an invention
having as its object "The freeerving of the lateral
equidibinium of an aeroplane" to be used in the place of
the usual side controls.

So far as I can judge from the specification the invention
affects to be similar, of not identical, foot to my own
invention for which I have asked Mesers, Many, Cameron, Sewis,
mention for which I have asked Mesers, Many, Cameron, Sewis,
to Massie to prefere are application, viz: - The central
balancies. Writial be placed above the manie sufferting
burlaces. Writial rudder centrally arranged. This places
me in an embrarasing finition. I shael go down this
me in an embrarasing finition. I shael go down this

191074.5 - Sat - 47 24 00

## METEORITES RUIN CROPS

Rain of Red-Hot Stones Falls Near Florence, Italy.

Giant Meteor Explodes Near Quincy, Ill.,
Causing Buildings to Tremble.

## Fireballs From a Comet.

Special Cable to The Washington Post.

Rome, Feb. 4.—According to reports from Florence, a rain of meteorites fell thereabouts last night, especially at Vaglia and San Pietro. The stones were of the size and shape of hazelnuts. When they reached the ground they were red hot, and the crops were ruined. At midnight at comet vith a long tail of unusual brilliancy was visible.

The meteorites were gathered by handfuls today by peasants, who are impressed by the phenomenon. They fear disasters are portended, and consequently they are crowding the churches to invoke

help from heaven.

Quincy, Ill., Feb. 4.—Something, supposed to have been a meteor, struck near here at 1:30 this morning, aroused the whole city, and caused buildings to tremble. Those about the streets saw a great glare in the sky. Several said they saw the meteor explode. There was an appalling detonation, followed a few seconds later by a trembling of the earth, which lasted five or ten seconds.

fessor of astronomy at Depauw University, said that details of the Quincy expiosion tended to confirm his theory that this meteor and the one recently reported from Connecticut are fireballs that became detached from Comet A when it passed through the solar system and have been traveling toward the earth ever Comet A's balance of gravity probably became disturbed as it came close to the rival pulls of gravity from the various bodies in the solar system, and it began to disintegrate, according to Father McHugh's theory. This caused the splitting and diminishing of the tail noted by various astronomers, and several fragments got into the sphere of the earth's attraction.

Menday at hun Oeles Fel- 7 ed direlly hum purned the Enjurements of Langle, oung hum the wax. In Luine X to the present skuke " aix of aerodioning. at Turn Cales Thursday. 1910 Feb 8 great distress. He had found a cup containing some red pipper and he tried to blow the red pepper up into the air. He only succeeded in blowing it into his eyes. Fortunality no damage due and from little Sandy declares that he will never never touch red pepper any more a.l. B. Last night (Feb 7) feet that we all needed a shaking up. David Fanduld had been in bed for some days passed mite sub normal Temperature and Mrs. Fairchild and Mrs. Bell and I had been feeling blue so me all ment art after denner to see a morning picture show. In fact we visited three of them with Veneficial resulto, a.C.B. at Ivin Oales 1910 Heb 9 - Wednesday Feb 9: Yesterday (Feb 8) called at Mauro, Cameron, Lewis & Massel, signed the specification for central balancing rudder and it was filed in the patent office same afternoon (Feb 8) a.C. B. allended meating of Board of Maragers of nat. Leog. Lociety, yesterday afternoon (Hebs) at 4:45 P.M. to consider Veny's propo sition about Louth Volar explication. Considerable discussion developed comparatively few of the members cared any thing about the other part of the expedition, but all manted to promote exploration of Contetand , and to have tidal observations made. admiral Collabory offered a series of three resolutions no 1. printing out The great importance to science of tidal magnetic and

Wednesday Heb-9meleorological observations made in the vicinty of Crataland simultaneously with similar observations made by the British expedition on the other side of the antarctic area. I've third resolution expressed the readeness of the South to accept Mr. Deary's proposition of it had these objects in view providing that the project should.

receise sufficient financial consistance to warrant the undertaling. These resolutions were adopted by the Board. The second resolution, which was withdrawn and not voted upon read as follows:. "It is therefore resolved, that the Society, through its Board of Managus, endorses the plan for an antarctic expedition submitted by civil far as the place propose to make an attempt to reach the South Vole" admial Villsbury proposed to drop the Volar feature altogether, and although quite a number of members of the Board mue not in favor of the Volar feature, A mis decided that there was no trope of obtaining the financial assistance desired from the general fublic huntrout it, no to ottain from the Peary artic Colub the use of the steamer "Roserlet" and its equippoint of men and material. We could not lispe to obtain the scientific objects desired without the money; and ne could not hope to oltain die maney untrout ite volc. It was therefore determined to indose bear's plans, but say nothing in our resolutions about the Vole simply enphasing the Recentific dijects desired by the Sciety. Kesolution number 2 was therefore dropped.

1910 Hebqat her Cats. The whole matter was therefore referred to the Finance Committee to ascertain whether the members of the Society and the public generally would contribute a sufficient special fund to make the expedition to be sout. The resolutions adopted met mit unanimos consent. U.S.B. Coxo Celeplone address Nest 368 Varherede aparlment 1112-25th Street at Levin Oaks Fuday 1910 Feb. 11 Exercis to be expanded! -Feb. 9: Wednesdy evening weeking; and light Conference with Cameron our my Smithsoman Auchers. Type-wising the addus . ce Feb. 10: - Rumstateur & The Rangley Endant to The Wright Burs at he Smithsoman Lastituterin. In Burdand ? Euch at The hew Willard . \_ Simme here, W. Burchard (.). W. Knetand ?) at leurh. I Williams & Edichengle. 798 454 454 340 41362 794 1 1 Kg / 20 1 ch per 20 ft = 798 2 per me 1396 200 74.11: W- hopes is to die here Toright. 1 es fry 25 ft - Lay 500 zumber se 2 the for 24 ft - key 1600 gum for on? 3 the for 24 ft - Ry 24 or grafer 202 181,600 800 Evine & 24 Ly 1600 ympa m? 300 kg at 1 kg pm m2 Surpone. 90800 man sy 300 mi ax 2 kg = 150 m 272,400 2 300 Kg. 4 m ti = 1 m horiz. & winged cells each I'm dige = 1 m hong. 300 m2 hong = 600 a winged cells carle 1 m Eide 1

tel. 12 - Woodley Lund (burned 3.30 a. m),

Wedsardey Evening Mexicy Feb. 9 1900 706.17: Wed rowing reception, the last of the season, was held at 1331 Com. are. - 42 7et. 9. a laye and diskinguished Company front. Fem I cannot recall all the names. Company present. I recollect rightly including horsprotour, at 45 persons were present if I recollect rightly including horsent. and W! Fremont Swith . T' C. Hart Merriam, Hand & he Biologian Survey; Zen. John M. Wilson; Chr. H. Con; V. aarouson of Damasons; W. Stratton, Head of The Vermen & Standards; W. Otis South, Sinctor of his Enloyeest Survey; W. Jehnt H. Spoweron; admiral Killsbury; Survey; W. Jehnt H. Spoweron; Admiral Killsbury; Hors. Jameson; W. Littman Hand Servetor & the Coast and Geodedic Servey; W. King, astronomer, from the Observatory Ottawa, one of the Boundary Commission; W. newell, of The Engetin + Paclametion Alovice: F. arthurd. Day, 3 The Carnegie Geo-physical Laboratory; W. Parker , The golding lang; M.C.J. Keel, Harident of The American Security & Trust Co; Hory. Zahm, Por & two Cuttolie University, Sec. of the alero Club & Woodington; W. Christison, Head of Two Esperants movement in Washington; Proj. Coville, Botanist que Deft q agric.; V. Dall, q tar hatione Museum; W. F. W. Booth, Editor & assoc. Review; of David J. Yay, of the Golopine Luney; W. Farton, of the Golopine Lany; W. Bailey Willis, & two geological Survey; V. Srving; W. Wadsworth; The Sourcest Minister; a grathman from the Sweet Regation (have unknown); h.J. Bennett, a member q he House of Papusentations; The British ambassador (W-Bryce); gen. allen, Chief Signal office U.S.a; major Aguier U.S.a.; W. marparland, take former Commission of the Vistait of Columbia; 8: Fremont Smith; and a number of others whose names I fail to remember. W. Friend Igle; Koop. Marlatt, Enformologist; Speaker: Mrs. Morelatt, told about the paperine cherry trees, which had been destroyed because injested with dangerous weeks Which had been men 2 ow grapement cherry trues intended for x gruss. There were 2 own the consignment will perhaps to Rent. Who for Smith; W. Litteran: W. King , ottown; May. Coville; W. other Smith; W. Litteran: W. King , ottown; gen. John he Wolson gase some anecdotis; & auten L. Say; In Atratton; W. Bennett showed photographs of The baders of the dead in Prunin (or the East) after a massacre, pleases too howish to be purlished. He also spoke of the mussice.

The Kikish aubussadve (W. Myer) made a charming adeliers; The Emedish Minister spoke of the operation on appendication recently performed on the King of Swedler and gave an encouraging report on the Condition of the King.

The were several other speakers but it is improved in the & report their adilusses or names now.

gen. allen spoke of a meeting of the avention Committee neut. dore at W.C.). Bell's to consider questions concerning the Laterasternal averation meet perposed to be held in Washington. Considerable doubt was belt as to whether the meet could be held in america on account , the attitude of the wright Berthers. Forign aviators objected to attend if they were to be subjected to Lapringement suits from the wright Bens.

Ven Wilson Esquessed office. muchy!

Sering the course of the evening two newspraper men appeared and more about to enter the room where I told them that while he would not receive them he would not receive them he would be yeard to see them, we could not receive them as mentioned he went have mentioned they have admitted to mentioned they have found they have found there were sent to report proceedings for the washington popus. I said there was surely some been sent to report proceedings there was surely some been surited. But they and had been invited. Men men often invited, but they must have herefular men often invited quests when Came, not as newspeper wen, but as invited quests who came, not as newspaper men, but as another quests when the the pound out that a meeting of the aviation wanter. They thought their was a meeting of the aviation wanter. They thought their they had come to the aviation that the wrong that he to I told them they had come to another anistion that the ware two he. Well's and to anistion have the war the war westing next down the the committee was meeting next down the theory. Committee was musting neut dov. at W. Charles Viell's bouse. They thoused me, and vanished. X

Feb. 12: W. Carrison, y hams, Camen, Lewis & Massie, attended ray heduridy Evening meeting teb. 9 and stared after the meeting had cloted to advise me concerning my address at Sanitaroum had cloted to advise me to portions relating to the Wright Burthers lastitution. I read the portions relating to the Wright Burthers and he advised me to modify to language. In Comment of the constitution of another his suggestions. In the way address in the right at the Counciliant and the as to get my address in stared until nearly 3 a.m. (Fuco) the as to get my address in tage. I determined to read the address ruther than they written form.

Type written form.

I determined to read the address in the father spent it, by that we question could possibly aire in the father spent it. It that we question could possibly aire in the father as to what I did, or did not say upon The occasion.

7eb.12: Whoges from howish, Com. was her last night (7eb.11) and stayed all night.

Today. He was anxious to go home to his wife today. He was anxious to go home to his wife as she is experting a visit boom the Stork.

Tet. 12: Barbara Fairbuid kar had an attach of browdisting Fet. 12: Barbara Fairbuid kar have attended her Vermoley with people (temp 103). Trained nurse attended her Vermoley with feeb 10) + Court right (Feb 11). She is just as bright wight (Feb. 10) + Court right (Feb 11). She is just as bright with the body. She looks pall and hund have guite a cold. Their through. Sandly to have guite a cold. Their through wonder at it, for he manages to wright half out of his wight clothers meanly every wight and lies out of his wight clothers meanly every wight and lies with some pretion of his body exposed to his air him the should leep out of closes as much as preside. The nearly approach to out of down the came of her windows of the bed room. This produces good cool are feelying air) in the room, while this cold air for the chief of the lumps it is by we means good for the lumps it is by we means good for the lumps it is by we means good briefly if it stribes his little maked body while he is asleep.

There has been a struggle to come him of the healt of sucking his through. His hands are tred up in the sleeness of his night-dress were shown up to that he could not get his hands out and might - dress seems up klosewhere to keep it in plant. and get Present: He would somehow wright out. I his wight-shirt during the might would be found early in the morning with his throught is his mouth, and half his body (sometimes all) enfound to the cold are. I did not often see him in the early morning but course time he was lying, half rabed eaposed to the cold air. As nothing seemed to be specially concerned about the matter I throught it best to make a now about it with the result that Faisy begans to

Drivate.

1 tal. Com

Feb. 12 Lut win a how to keep his lively concerned 1910 Feb. 12 at right. She is determined on two points - ke shall not such his Thems, and he must have cold outside air to breathe to and the is determined to such his Themat even if he has to wright and & his object. Ungertunately there attempts are made when no one is with him so he lies, practically nated how the right and I cannot undust and why his nurse, who takes him who Con morning and must therefore Know his saled half-neared Condition, does not realize the danger to the chief, health of sleeping in a cold room with his body coposed in This manner, and tell his mother. I and I do not see him every morning, but every morning I see him I find him coposed. Seeing him at intervals in this way and always in the same condition, I naturally conclude That it is the usual condition, and that vixal matters Councited with the child's health are being neglected by Those about him. It seems to me that it is om duty either to keep the chied in a reasonable, warms room, or take special precontions to keep his body water & council 4 he is kept in a cold wour is better is his body is kept warm) Since I much my first vigorous protest several change have been much in the character & his night Things but no out, energting myself, seems to be much concerned as to The results, The changes me at least no one seems to know that his bedy is skill exposed in spite of the changes — and get every time I encurine being in the early morning (which is only at interval) I find some part of his body enfuned. He was put into pajanca, & a sort & jacult.

Trewet - entirely open in the middle with the cold air playing on his abdomen to back — and his thouns in his month?

a wait - band "Cholina band" were fast our but in his wrighting to get that blessed thumb into his mouth and take his arm out of the sleeve of his night diess - The waist - based because displaced and he is as nated as ever about the waist I cannot help feeling that we have here the cause of the cold from while he because suffered that led to the formation of an abscus in our can. This was while I was in New Jork.

Sunt Fred De

branks of word

Support of the state of the sta

less careful

must be descript

Since my return I have noticed changes in his night Things showing That attention has been paid I the matter by As (for laumple - The pagament sewer to his jacket, or attached to it in some way to present coposion at the waist) but I doubt whether any enamination is made in the endy morning to see whether whent the results of the chances may been been. The murse must know smely but does she report his maked conditions to his nother. His crib is in my hed- worm but I do not often see him in the morning, as his nurse comes in and Umones him beam his bed before I am awake as a rule. At intervals I see him and his body is always luposed. the hour juste a bad cold now, and I was awakened by his barking cough. A Then he was lying with his night dues open in front from ent enporing his neck and chest to air about The freezing point or lower - and barking away lines by I suppose no one will notice the dangerous Condition until too lake if I do not make another row. it have thent I am agrain to allow myself to speak for pear of saying too much. I shall simply Therefore are Favil & Dainy to read These hotes and I shall simply lay that it seems & me that we are tripling with that dear child's health for the rate of fads. ( The Thurs - running feed, there and the danger to health disappears.

1. Let him such his threat y he wants to and We will not try to wright out a his clother.

cutch cold even y exposed.

The attempt to promise him with

bursten-proof clothing does not seem to be successful 
he is too sufellight and will probably break out

of austling to attain his aim. My plane would be to be

Mus is

all

private

lundary -

Then when the temperature of the centre was such as to permit of the min of hydrogen and ongger in the gaseous Envelope we would have steam in the extraorphice - that is water - vapor. This steam arking upon the carbide Crust would penetrate & dissolve The more soluble cubedes and attente hydro-contours would be formed by The vacidation of the coubides - The onyon uniting with the mitable base and the carbon uniting with the hydrogen & the water, on a great scale. If I undustond him correctly the artism q wester-buyour upon carbide of iron at high Thaperatures would produce oxide y iwer an our band and petroleum on the other. I may be wrong live for he spoke of ammorial vapor - and represent to the visible vapor ricing from The crater of Vesuvipus was composed, Carrely of answor bupor instead of steam. He stated that steel wire contained combine in combination with crow, and That he had bound that by submitting steel wire to two action of wester rubon at a high temperature (it may know feer ammonia-vapor pulages). The futerleum had beler formed antificially. The characteristic small of petroleum had been perceived.

Carbide crust were not strong on an following Carbide crust were not strong on an following Carbide crust were not strong on an following Carbide mitale with many cases) upon carbides but an combinations Cast in many cases) upon carbides on sulphastes and these with sulphan replacing may have been substituting products— the sulphan replacing may have been substituting products— the sulphan replacing the Carbon. Then the artising a maker would be compound would produce petroleum. I am missed up have but I made the have this is his important discovery. Root having clearly in mind the chemical constitution of the barriers rained I only get vapor ideas.

As the matter his vaguely in my mind we have three

Companied brusset closely together (1) a metallic sulflied on sulflied (2) a curtou compound and 3 water types (or ammonia together — decidedly mind up about this for I have the information that ammonia is dely a hydro-carbon compound so I will still to water reapor).

1910 Feb. 13 at Levin Outer, 83 Sunday make cells with concavo- consen surpeurs with The lower surgues of the hoursuntals or oblicers surge con care The apper senferens courses. Or Tuling peur tetrabedunt construction - love surfaces q obliques concurre form front to rear upper surpeus Couver from front I rem - 9 to form Eaggreated This would greatly improve liftering power of have tetraheded construction. Sextime of a Horizontal Section Thingh a wing of 2 3 4 65 04, 45 straight with with the greatest concurity on dottes line to greatest concurity on dottes line to greatest concurity and 66, cc the Then a coon ribs on both risks with cloth. The greatest concurity on dottest line 1 , 5'm 5' 2 9 - 15 1 89 m = 10.73 89 8x if I recorded worthy 11/460 44. 110 Lake 50 4. m. houzoutel 44 Sq m(about) 11/600 orft 54.54 eq m (about) as at a basis. 50 x6 x2 = 600 4 ft. 50 × 1.8 = 90.0 kg m. oblique (alus) hr 2 the per of ft. 1000 the ryuns 500 4 ft 50 my m horizondel forward for wound celly by side 12m 536.50 4H. 50 4 m = 50 x 10.73 = 2 winged cells, each I'm richt, rields horizontal projection of 1 Sq 2m. 2 One-metre winged cells = 1 m howandel. agk

Then fut one big tranch Got Office in every rulyoud Station. a Sreat many of these cars go direct to the rullroad station; if they do not go direct to the railroad 1910 statum they generally go by the main bost Cliffice and the mail could be deposted there untout going to The local Vost Office at all sgring many hours. The Government could fray these railroad companies for carrying the mail so that if there would be practically a muil bot on very street corner where there was a car track. I cople could fut up their hand for the motorman to stop just as if they were going to get on the cur and definit their mail in the lox from the outside of the car. This unied not take as long a time as it under take to lake me and let off passengers. Seople riding home at night from Office Could deposit all their important foreign mail night in the can they take for home, and by this meethod The mail is never dead" but is always on the go. Would unk up the idea better later on C.R.C.

1910 Feb. 15:

- Turden

at Leven Outer.

7eb. 15: Daisy's birthlay (Mrs. David S. Fairchield)

Herderon Chairman of the Executive Committee of the Board of Regents of the Smithsonian Institution and discussed with him important matters relating to the Institution be greated with Institute in which had been submitted to us by Secretary Walerth, I makked a greater part of the way home culting on route upon Miss May and Source Lyminds. It that them the latest developments in the de Hesenoac mutter. A letter has been received by Mrs. Villot signed Herbert de Hesenoac announcing his approaching defeature from Italy for america. The family reem to write in the belief that Mr.

Heb 15 at her That The date of the meeting is fixed for October and I am very much inclined to believe that he meeting will not be a success of held here at that time for Congress will not be in session, nor will the deplomatic Corps be here. I stated that an aristim meeting held in Hashington at a time when Congress unted be in session would do much to commie Congress to make an appropriation for accommuteal unto mite army and Navy and that if this isee done it would do much to printe the art of anotim in america. The appearance here of expert foreign anotas uned give Congress an idea how rapialy this subject is being deseloped in freign countries, suggesting to Them the adusability of seeing to it that america should not be left behind. Fand Hairchild armid at Turi Ceales. They left early hus morning (Hell 15). Fich 15: Unite an important letter to Ex. Senatu Henderson Sus morning upon matters concerning the Insulsamain Institution which had been submitted to the Exceeding Committee by Leeretay Walestl. .

Friday at Hele Larance My. 190 Files Jeb 18 Floward 8 706.18: Vef. Hashwelow Tuesday night (8815) by hudinghe trains with Makel. arrived al-Rewy de hednesday morning (FB16) look healfest at Jusey City drope Holyl Longing marked + then neut to White Itas, line whoul where me Daw Sipsen of for Lenoa on they I. J. Cedie, mits he husland Ho! they resant pillet to her To Children Posalie aged fire & Sectude Merces aged eighteen months. It the quited. Couldn't And the Super Lawrence Sones although I hunled the ship things - he dely wood of Candy of them as rules as the failet. There nere also freedent saigner and he. Miss pelled count of the pillet for I duand Gussmann Repsey uncle - In. Charles In. march In alies about I has day tiles this dish I hot M. Julian Replex. Mo pur Hulland of Chicago but he two daughters here also be hand being passengers. The left them at 10.30 although the sleames has wit to dail tile 11 - and Make dies Dans the poine Chrighe Dans bots at alexanders and Impte a chain with pearlo for hees at Hars. Then we came lect the hold 1-Mr Glenn H Culist link lunch mich as in afterwards neut out - with uf - In the treining I new Who the also I Dow The Foline Hunter - very good while Driss Caroline M. Curdy stand with Malel.

Leb 18 Friday at Holel Janano ky next day (Feb 17) me aus at\_ 10.30 breakfasted at 12 , the niches new out presumably to this while head (or preson " & railed for Mr autist who said he was comme I of course didnt. Oh fire och I had Muy hair cut. I make had hirs diessed. I then ne had dunes I new toled at 10,30. This moning for aux at 7 a. M. had healfas. at 10. 1 now 10. 30 dain reading the herryork Herald. I he intend to lear for fringfield by The 2 p M. train. well by M. J. B' -( about written by high - but not at my deckapener) Ing Februs - left Washington midight brain. w. Feb. 06 - animal My - sew wor W. Willot off by SS. Cedrice W. Custiss Toole lunch with us at Hotel Lonaine - Zold him about central vertical bulancing rudder & how Ludlow + I had filed application, for it independently of our another Contros much intensted for said he Cupt Buldevier thing. Had title with Couries wount his affairs & relation to Herring. Mr Curtus accompanion! us to the Hippodevine makene perform. where healed's books were tight! -Union Feb 17 - at Hober Corraine - level breakbast about hoon furries telephoned he would call with his commel is afternoon but feeled T muterialise. Heed a telephonic talk with fudlow who total me That a Third man had applied for put - but did not mention capt. Buldwins name as it had been mentioned compilentially by Centiss.

1914 Feb 23 - Hedresday ar BA a. y. B's movements Continued Fringfield, mars. Put up at "The Worthy"

Hotel Saluday, Felig: - hus Bell and I went to Anthampton, mass and called on miss yale at The Clarke School. Talked with her about the Aubbard General building to be from the bequest of the colorer school from the bequest of \$50,000 left by mus.

Hubbard to the Clarke School, high to drive Damherst, Mass. Deallon Prof. and Ans Georgenor On account of the condition So drose back to unthampton and caught the hain of Springfield where we stayed all night at if I worthy " Hotel. Lunday, 7eb 20: - Left Springfield about 1 p.m. for Boston, mass where we stayed Atte baker House. Mrs. Bell die to cambridge, and called open this. Mary Blatchford and Mr. Jamuel studder. as I was ont very well & remained of the Jarker House. Inonday, Filos: - Am Bell and I left Sunday Boston & St. John, N. B. by the morning thain . Reached St. John same night

19,0 Feel 23 - Med Two from 87. John W 91 Cours Fi mesday fel 22: - Teft Turo for Iona ly morning train. Or Iona found Im and his. Baldwin, Donglas Dr & Curdy The sleamer Blue total took us from Jona to Central thent of Bein Bhuegh. We reached home reached home in time of dinner Milway \_\_\_ at 1815, 1////// Alla Burmash on ani ab

1910 Feb. 24 - Hundry at 1818, 93 maids affected halfdiessed + waili, in hyptered- fortunately there had been us one in the other bedroomed or I did not succeed in bee or The third floor. where the nable paper barrel caughe fire but they put it out with extinguishers + w damege mos done but the suche was quile thick to they were all concling tedly. In Bele did within of the fire well I hed him a feareste The suche would not go down stairs. I shought I had hept my with pully well tile his. Poll mietly remarked - trley didn't you call down the litephone to the employees. Then I subsided. MSB 1910 Leh 24. huerday \_\_\_\_ at 1313 This afternoon we took Baddel ho I from the Sled & whaled he out on the ice - Comidea was to lest the motor which has been felled awind from Kirkham two days ogo Thee was not much wind so that the draft. on the radiation was practically nothing noter was run with open though for 5-40"
her missuig fère once & apparently running
mell\_water reached hailing point

1910 Feb 25 \_ tuday Feb 25: - De drome Boddeck No. 2 mas taken out upon the ice on Buddeck Bey this morning. In Baldwri. is here and as I will ask him to dietate an account of what happened. alg. Im. Boldwin pays: - The machine was laken on and John ran her down towards the narchouse grabout as far as the Latratory wharf, Then burned round and came back towards. the big shed putting her nicely into the air and flew & about 100 yards and began to turn to left. The turn was a lettle too Sharp, the inside rong toriched; so John, after straightining her up, shut of the as the ras a little und blowing motor. down or the hill from the East me decided to just our the machine along the rice. John took her for a spin fabout ten munuter. De mater boiled a litte but but the engine showed no signs for heating We dieded a balance up The ung tops which were mr adjusted. The angle care a little men me side their the The the yoke rasist in the center 7 M.B.

1910 Feb 25 Fuday Im Honglas Inc Condy has just come in and so I shall ask him to give his own independent account of what has been going on this morning before he wands har - Baldwin's notes! Mr. Une Coudy says: - he took her up about of the frage what there and started Rose about of the Silver want shed when immediately the machine officer the Men way - Ire thought that this ruddenly burning around might have been dere 5 The little pull Fach would and also to the fact that the wing light proved to be fout of the mornal position both having slightly a positive angle When the airold wined to the high offer a quater light than the starboard Tip Are decided not to tray another flight with the wind ment down. land so for sake I peacher san the machine around the Bay four times in about ten minutes. J.a. Ll. Mc S

Friday \_\_\_\_\_ ABB. 97 1900 Feb 25 I don't jute get from the remarks I when. Baldwin a Inc Coudy a picture I what occurred . Pahaps the facts may be brought out by a cross examination of The distinguished avialor the andy dos. is Cross-epamination Q, 4. B - . - You started by running Baddeck Av. 2 on the ice I understand, from? The C: - Just of the Lodge what als 18: - and in which sucction sid gon run. her. McC. Towards The head of The Ray ass. - How far did you run befre you allempted to use. mcc: Till about A The Don't shed. ay.B: - seid ski use! If so howhigh did she gri Auce: - about fine feet I should think ayB:- Den I understand she did mN gr straight but swing sound to the left

al Bra - Juday 1910 70 26 shering with the vertical modder? Inc C: - I started to make a huma The left and tried to correct it after I started but the distance was too short. remarks that the machine proving round by usely from the action of the wind. It understand now that you initiated the him. Is That night. Anc Cin. Rollin circle. Der .. what do you mean by the distance being to short from the fround? succeed in making The turns and that one wing louched ste ice a something of and when I started something carried he would faster than I anticipated, seon's know what is now, so that the gull wing which would depress on a him & The left, bricked the rie I shut her of after she was strangflind out. She ran about & of. then I shout her of.

Tidery 1910 Feb 25 arm: - any damage done! mcc: - Practically nothing. met: - Well, the speaders between the por type buske in the middle but me repaired that with give I take and splice. Qs.B:- Have you any idea what caused her to seving round more rapidly than you intended? mec: - mostly lack of practice. ass: - How about the wind. What was its duection, etc. the East which under ordinary cureing.

Slavers wouldn't have amounted to anything. ascertain whether there was a down draft sime the now slight wind observed came from the mean short. mcc. no. There man't enough wind to him an anemometer Idon't believe. aisis: - I think it would be well to tete phone Bedwin & make a smoke about the place where you turned and see whether the smake goes up a down.

19/0 7el 25 fuiday \_\_ aNBB. I understand that after this tryn had been grade, you van the machine around the Bay four times. I support you mean on the ice, not in steam. ars seid you have full agure pour on? one :- only in spots as B: - Seed you attempt Dune? mec: - for: acto - when unning in spots at full power why did the machine mornie? kie: De spits were to short. That hunghl of d' come she gicked up inmediately In fact in More spots the jointside wheel no More ground so short her off. arsip: - De ground & nort & jel al is said she shows a tendency to use which had to be resisted by a depression of the from contine, or and she mot give indications Oyhlening Ince: She would have gove up every the thatte was Juned only when OS B: HW about the first center? Anc C: - serch't gay any farticular attention ON

1910 Feb 25 - arbb 101 Findaly control to keep her down! most of the time just for the practice of it aers: - How nas the engine working mcc: Islouvilly. Hux up reformes to auroral aven in C. B. last X 7-lb 25: - Have mt been down to the Laboratory since arriving here as I have my been very well. Saw see the semaled this morning and he Thinker I will be all right in a few days. I understand that the ice on The Bay has hardly extended so far) beyond the Central That a storm broke off some of this ice so that when we landed here (Feb 22) The sleamer Blue Hill nas able to land us at our Last night there was considerable first and this morning a thin sheet quie extends own wharf. as for up M. Patrick's Channel as me can see and ver re firthe Bras d'Or Lake putty nearly up to the Spand harrows Quinder stand The ice on the Bay is reported De en good condition fo aevolvonice

Fuday ar IIB 1910 7125 ystuday (Feb 24) a drome was taken out on the ice of the first time is I under. stand. no attempt was made at a flight. but the engine was tested and seemed to gire good Satisfaction according to the Carday's notes of the test. This morning the first attempt at a flight was made as recorded by Baldwin and Includy. One machine, Buddick Nv. 2, is now being taken out on The ice for another trial and I am just starting out in hypes of witnessing the lests Fet 25: - Han Bedwin make a smoke producing apparatus that can be laken ont on the wir to spot down -Tolos: - at one of my or idnesday soming meetings in washington Pirt Bauer, head of the magnitic survey directed attention to a semarkable magnetic storm that had interurpled teligraphic communication all on the wold. He was, as the time in H- Johns, Dewfoudland, and was presented, ly the magnetic disturbance,

1960 Feb 25 — Friday av B.B. 103 for receiving a time signal from Greenwich Observatory England. He had looked ast for a display of amora brealis at that time but raw nothing at M. John's. He referred & me to know whether any aurora had been observed in cape Buton Island, and I was able to point out a record of such an observolvon made in cape Breton Legt. 21, 1909 (ru Rucader Vol. I p 315) I also stated that another display occurred, about 20 days afterwards (just one votation of the Sun) but was unable to find any record of it in the Recorder. The will now see whether we can find the record ( which was undoubtedly made) in my Home notes. in also3 Feb 28: - I find that an amora was observed hur Oct. 18, 1909 ( see Home notes por). will write a note to Red Bauer giving copies of my notes concerning the aurore of Sight &1 and Oct. 18, 1509. Recorder is evidently due to Mrs. Hubband's death, which occurred out do , 1909 and I lef Being Bhey Och 21. It is probable that the

Finday 1910 Fel 25 ar 13-13. Hems may have been omitted. Feb. 25; (Evening). Went down to lab. This afternoon to see what were going on. We attempts at thight were made. Anywy Mow - something with it and from housing The Ocious also looks as though it should Budderle WI & Buddeck W 2 am hearters . Wisited the Uply Suchling Houseboat.

White the Uply Suchling Houseboat.

From very comfortable. W. Kyrus put some daugh

the stove. To make a smoke and what not

stream on to use it see how the

a cittle way on the ice to slight so. X. Amore dufted with the Sa slight earterly breath to wind blowing (E, ENE, on NE). Such was warm the surfice bless down hill. We mistable about Three being a down draght. Find Fixation about Woman Luffrage. also letter to Varied about hatual Selletion, Came aross Them both the Peleview for the booth to the Hotel " bootes ("How Hotel") when when the seatest butters belancing sudder, For women rate see Home well May 30, 1909

1910tel 15 Tudas at 1818 1910 Teh 26 Saturday at BAS\_ John he Dernis tols me the following the morning: -This morning to four the house "Costor" leging drum in lis still, HE (John) trud to make him stand up but Coaston refused, John four thought that the house was all or line but after repeated attrapt to induce him to me upon to fait. John

fut \_\_\_ at BB. 1910 Feb. 26 106 removed part of the shall o moved The horse having so star he could have better light on the affair. John Elen descoured that Easter had knee joint + ile food The hore mes threfore shot at once by his his burner John fuling Too much shaken up to perform this deed. John says that Casha always has den å kieleg horse when in the stell + thugui Casta las hem placed in a stall for away from the other torses a le Hall boarded representes The accept polar while must have hun coursed by kicking, a by Carla Signa down in such a manner or to break lis leg by his our might when Trying to rive. John is ande ent up our the mushafe promecx with the the same of the same

7910 7eb. 26 ful \_\_\_ - at Houseburt 746.26: Better put down verious wants so us not to fright them. ash Con to make appeal- Inden to both 1 + 2. 9 he BB Recorder. Want te Has photo. 4 new ship-liverse for her Ender ship affermed in Recorder. If not have it made, showing the house of the sheep. dosenstrum from Jardin Huthard. Have letters been sent to mis French & W. Macked. Write to how, Book But & Sanid. a Commun. for his Committee of him and JSD. Feb. 26. Been reading up about Broportional Tesperantations. Suntaint Election Repulations in S. aprica with an Illustratine Election - from "Representation (The formal y The Resportional Representations Society; 8x Keit.) NOIS - 21 gr. - Xec. 1969. There interesting. Morning process seems at frist to be ordinary methods. Working process seems at frist to be a little complicated but undoubtedly sound. Expected at first to undustanid the details of procedure but the at first to undustanid the details of procedure but the "Hustratione Election" clears of many of the difficulties. Must study this closely. Where are the Seven copies of hols I and II of the Recording and have they been bound. Collect the coopies of bol I or have them bound. haten for 6 1910. And lommunities + how They are governed. a exady in natural civies. by Y. H. C. mc Cook 1/2 XVII + 3 20 Any + Loudon: Huper + Bus - 1909 / 7/6 met). The heart of The autorative. Being the story of the British autarctic Expedition 1907-9. By Sie E. H. Shackleton C.V.O. Loudou. W. Heineman 1909. 2 Vols. 36/- net. Col Maxerson in the gener present of But. E. africa. Wishow & his friend accompanies him. p. 300 Fr. acust. Regard & hopier - Complete & definite striligation & of the testicles of a rat without any asion; to a skin, of a single application of x-rays billeurs through aluminium. 108

wist 6 he

Effected

4 collect

1910 Feb. 27 Dunding but hoveworm distance and spoon of the giftle of one million dollars by W. Troubfeller to help towards enterpating the disease in the South 123.

To continue financial assistance to a unpleman in Lal who has received for at land twenty - fine years present regular contributions from W. Hubband 140 Karton 143

We sum to be on the ene of a revolution in our methods of railroad transporations though the application of last

Feb. 27! Hand frost last night. The whole lake from
The househout as few as the eye can see in the
direction of the Grand horsons seems to be
solidly frozen over with a continuous
that a continuous
that a liee — no open water visible. After

Feb. 27: (2 p. 20.) But ween 114 12 o'clock - a wind came up from the S. W. Quixe a gale is blowing now with some rain. for sheet covered with prots of with some rain. for sheet covered with prots of hute in places - open water in the distance and it is present ridges are appearing in the distance and it is obvious that he ice is about to black up. Will obvious that he process from the window of the househart. We with the process form the window of the househart. We with the wind ho white caps visible from her get although wind is strong enough to raise great warrs if water is strong enough to raise great warrs if water at caused peoples to an empore way appairs caused peoples to an empore water and the collection of rain water in the deputations. Cannot detect white caps even in the deputations. Cannot detect white caps even in the deputations. Cannot detect white caps even in the deputations like open water at a distance. In what looks like open water at a distance.

2.024 . Sout whither the white line visible about half - a mule from shore is really a pressure ridge. Most likely an appearance product by construct between the ice are the dander water beyond.

The middle of the space framing the condained within tur 1910 74.27 bery exentling ghost expects might be produced by concare reflectors. Ether Elliptical replication 1200 an ellepsoid woolesten. au Egg- shaped Mamber. has which and attle bours from Showed Cook rend & life-like " You could run her through with a steward on skeil Real purous Spetatory ellegting room with their back to real and Tweek nothing. well illuminated in one four of an elliptical room. might be produced in this way. agel hinst see the glast from outside, y portion & well hanspound or is near portion ; wall removed. a real man might even walk up to the sport and lubiare her - but ful nothing! A most lateauding illusion might easily pendund in this way. Ruhapes the and we should employ parabolic rather than elliptical reflectus. By two Luabole mins word on Engening was the like Those axed in old planks -Mouris Parentpuson Stand FOO O Spectators Caper 4. 1880 Ly with Coulle we val bocas & su whiten a spectful Couble appears at other

Monday at Housebout, Feb. 28: 7.30 a.m. - Pleochrois Halos & I. Joly Phil mag. Feb. 1910 p. 327 "An introduction to The Science of Radioastinis & C.W. Reffety Loudon: Loymans, free PC6-1909. notain in Phil hay. Feb. /10 1.331 While her Fel./10 p. 336 Ritting of Flint surfaces due to pressing of absorbed make. arting of rays on Eless (Kutherford April hery fan 1910 1.192).

Feb. 28! La repuere à flysts of Rat. (7eb. 26)! -Westerly wind died down about 5 o'clock so took I took machine out for several about flights John all of which were prettily executed.

Teb. 28: Horn on Lunday Feb. 27 a zulu laurb male, 42, 4 horns, strong, & healther, & M. he. Munderter upunts an abortion about a fortuget ap with a Zulu Evel.

Fib 28? Watching the crows gliding by here I was struck by the pronounced diedral angle the Types of their wings assumed at different times and wondered if it would not be possible to utilize this diedral tips on my machine. At such ends of such wing would be attached a movable top having a large diedral angle as shown in diagram a at a-a

These tips would have a cutain amount of stabilizing effect when in their normal posture, but on account of their augle very little left. If one end tipo down the movable Tip is Consul to descend with it forms a continuation of the Surface of the wing strendy producing mon lift on that side. Its disadvantage are the surface it will offer to side quals of wind and its turning affect when in action.

114 Monday 1910 74.28 " An entrades from to the Science Central butical fail-balance 9.9.de. Write to Walcott about The Rayley Fablet.

Tursday - at 1815. forms & hydrophornes - bridge born. Ropelly power? Lutar air? Mar. 1: Anniversary of my feathers buth. Hewas 6. 1819 hear to g?

Tremember rightly 20 would hear hear 91 years all looking

had been living. Junay at 13,18, 1910 Mar 1 Casy says. Dictation by aS.B. Carry print. " With certain privier markers flor he have to true and and company to supply and the sales Two limits I speed to produced by the two kined of Launch at lower velocity with ligh power - reefing unince

Un heard maistance limbs the high speed and the dupt resert.

the grater the H.P. The greater the range of prescrible speed that the stown & the backer. We want show speed for exacting & landing and high speed while in the air and their depends your the amount, supplies from. There is one extent power which will fact sustain the markine at our speed—the lower part of the curre (boot 4/115)— This is to we entry the Assignsting H.B. If we have greater the P. withen cleany (weight xe. There alf-support if jained at with a range of different speeds. if jained at with a range of different speeds. It jained at mariner & a minimum courselend that is a mariner of a mariner than support and a range between the supplies the time and the supplies the supplint supplies the supplies the supplies the supplies the supplies t

Casey keys that there is no intermediate balanced condition between the minimum or maximum speeds. When the intermediate speeds their would be a surplus lift of that marking would have to be kept obvor by rudning that ask a attack skill further until the manimum rudning that ask a attack skill further until the manimum speed (limited by the bead resistance) is attached.

1910 march 2 - Rednisday at BB 19 Bridgett Harman har shows mar. 2: Walked down with Lab yesterday (march 1) with bus Bell. This is the first walk I have been able to take for a long lime past. longlas buckudy made a few rounds on the ice in me in the air, in Baddick W. D yesterday (march 1). The to test the engine It was duren continuously for about 25 minutes and everything remained cool. It was mit hoverer, during at high yeld; and when & suggested to mcCurely that this should be done at high speed keeping down the drome by the use of the front control he said that this could at the year so as to lift The hind wheels off the sloes this mit indicate that we should have hougental unddeer both in front and behind which could be greated reparately or simultaneously If both the front and war housantal undders to should be should be kept at a negative angle it should be possible to run The machine Afull speed on The ice northant issing. Mrso sure of This as The main surfaces are permanently inclined to the line of advance. It might require that the main surfaces should be horizontal or presented at a nyative angle in order to gain considerable speed on the rice without using. The world yesterday (march 1) was from the & of NE and the smoke from the right shuckling Houseboat 1910 marcha Wed ar B.B. showed a down-draught. m. Redwin has had a small store with acheminey placed upon a sledge so that ne now have a smoke- jewducing apparatus that can be taken out Dany part of the Bay to asculain whether there is any dorinward vertical component in the notion of the wind. man. 2: Im. Baldwin has reached some very important conclusions relating to high flying but experiences considerable difficulty in expressing these conclusions in wordst. Then't the war plan will be to photograph his graphical curses and put Them in the Recorder with or without any verbal discuption there are how ditical speeds that child be maintained by the machine. a minimum speed in which he supporting surfaces are at their maximum positive angle; and a majunum speed in which they are at their minimum angle. That the machine can be sustained at lither at these tion speeds but me as intermediate speeds - a curious result if time He also finds that, under The same power, the speed of the machine should increase as we go up in the air, up & a certain elevation which he calls "The economic height" above this height The speed will again diminish as the angle I attack would have & be increased in adu to support the machine in the rare

1910 march 2 hed atmosphere dis conception of an "Economia hayble is a most important one and I hope he may be able to gipus it so definitely so that it may be undustored and discussed of all. mar 2:- The ice on The Bay is now in an edeal condition but me are unable to take advantage of it as the engines promised by I ankham have mt yet appeared. gesterdag (kranch &) I sent the follown a lityram is Feneral allen, chief fignal affricer gree U. S. Ce. inisting him to come here and also a litegram to major squer. a uply was received from Geneal allen last night (march 1) stating that, as major Squier had gone West, it would be impossible fr him ( General allen) W leave trashington at the present time. no word yet from Inagn Squier. Selegiams march 1, 1510. General allen Chief Lignal corps, war vego. trashington, G. Alights have commenced on the ice here. Hope with four distinct types I dromes. Frould be glad to have you fresent. ( rigned ) Graham Bell

122 1910 much 2 - Weel ar B.B. march, 1510. majn squei, squal corps, Dorar seegt, trashmyton, wec. Flights have already commenced on the ice and we expect to have a lively time next week. This. Bell and I will keep upon from freezing. (signed) Seaham Bell Baddeck. Washington, Sec. 1, 1516. E squeer has gone west and I am alone so am unable to come. (Fyred) James allen hund ?: "mided by carrays surgeons remove a mil form a boy's lungs. Wy Hund Feb. 28 p. 3. Fog takes covery due, but. bride pers. nature 7eb. 17 p. 45'3 "The animals of Australia. Manmals, Reptiles, and amphibiairs 6, A.H. S. Lucas and W. H. Sudley le Souiet phx1+327 (Melbourne: Whitcombe and Lowbs Chi 1909 15/14). used tadpoles p. 458. let my letter to V. Lowers about radium for Paevedu. + Explainer commenced on the new here. Has is try but four dustined laper followers. From ( Sugar ) Machan 18st !



Butday coud to Mr. Bell from Journa Symonds.
Donglas Inc Cendey's puser D. An. Bell nach 3 )
Seartiful flight this morning (much 3)
M.B. Me (.

1510 mach 3 Thursday Thought it was andy Ross and concluded That something must be wrong with the machine and he desired me to stop. Came doring instantly and when I orgund what the honble was found out that there was onthing vering but therir was still mille maderald mooney. Time for this flight now 20 odd minutes. The immediately felt The reductor and found all cool and Q. K. after a rest Jabout ten minutes started of again and completed a flight 16 minutes duration. Sanded of the shed, me because anything was wrong but just because I shought I would come down. Casey and Hardiner Look the une of machine our distance between Carneth's whanf and crescent Gine brashome so that we could forms some idea of the speed. what this was I haven't yet heard. mel mai ::- (a. S. B.) about half past eight This morning the a telephone message reached me from John medermid raying that slonglas for cendy had been up in The air following

126 /9/10 marc 3 Thursday - aVBB minutes and asking whether he should come up for us. It a asked him to come night paray and mis. Bell, this. Boldwing miss me Centy and I dive down to the Sab. o Att passing the warehouse and stable we heard the distant when The pupeller of Boddeck No. 9. and, looking over the Bay, discovered the machine in the air man the other side mastyged the horse on The from & the hell and watched the machine sweep across the Boy from The other ride and pass us only a short distance away. De machine sumed to be. about 50 feet in reair and mas moving with great steadiness, the audy appeared to have or perfectly under control. This was certainly Refinest flight I ever votnessed. It gave me great confidence in The machine and in the man: B Baddeck Dr. & swept on past The latitating and cucled ner the Bay a second time. He diese on & The ice at the Cours thed and watched healing drove awand to Bay served times and finally he brought the machine

1500 march 3 - Munday CNBB27 down on the use making a beautiful landing. Lundersland theer the engine showed no signs of heating although the machine had been in the air of considerably over a quarter Jan hour I have me light heard the selact duration I the flight nas ended because of overheating, but mc curdy assures me this was not set and he came down more as a matter of jucantion then any thing else. So far as me could see he might have gone on indefinitely so far as the machine was concerned. It is obvious that he must have experienced considerable cold for I notice that Inc Curdy's face bears upon each cleek a long white streak stending from the come onter corner of the eye all the nay down The chek Dis Streak seem to be comprised of salt indicating that his eyes had been watering and that the evaporation of the tears had left a sheak I salt. Instructed that the special radiator provided of Baddick NO. 2 was mo used

128 1910 March 2 - Thursday - ar BB but that The old square automobile radiator was employed instead. I shallask kno Cendy Defplain to reason for This . To there was a slight Awind from the west quing the flight and I had the new smokeproducing apparatus laken out on the Bay to see whether there was floated off at an inpurad angle.

showing not no down-draught.

efisted ass. mouch 3: - (mcc) he made a list unt Baddeck Des. 2 udiator by unning The machine on The ice on March 1. and found that the mater heated at a much greater rote New nos consistent with the cooling surface provided by radiator. Ice found This whe due, as ne had formerly supposed, a lack offerd Ira therefore decided to remove there statute the honey - combed which me knew would cool fe at least wents the minutes is that necold, make flights with near and correct the lifet in the morgantal Title redictio during our levines him

Thursday 1910 har 3 \_arba.129 We pupure to force the natur coming from the pump of angene through a thrue-quarter tube to the outside tops and of radiator and let it come back under pump pressure though all fifteen tubes instead I in the present arrangement where the nater goes out through seven tubes and comes back through eight. as soon as this clarge is made we will test the flow by hanging radiators on The nalls of the Dig shid and connecting by how W This test nos made with radiators designed for airons machine and results seemed to indicate That flow now Oak. Oris test nas made yesterday morning (march &). march 8: - (ask.B.) I understand then the new spark plugs in the engine seem to be O.K. and do mer hear as the old speak playsdid. I do and think that any description of the difference between the old and new spark glugs has yet appeared in the Greader and I wish that the andy would Six us some intelligible account of the

- WI B. 13 130 march 3 Churday march 3: - (Inc () Reold spark plays orchested mainly because the gapterminals, across which the spark jungs to unite the charge, were small platerum - typed were and, being small, will hear up very sasily and because of this head will offelode the change befre the jusper time. Ohe new plugo me have are technically known as Bosch magneto plugs and their Sup-terminals consist of a heavy piece I non or still having a form of a star fish whose four joints almost come in contact with the heavy wall of the flug This makes a spork gap the terminals of which are comparatively heavy masses. of non and so will not heat up as eastly as a fine work. mec Mar 3. — Rrefinere telegrans — Harden Connece — Theyth are now being made out the ree here. If epou shound care to look who whe made mould be my glad to ruine + entulain your upuntaline. Down of Milling

1910 march 3 Mayor Marsonal - Thursday could come dann \_. Have wire meetic Cornel yourse concerning flights which we are making here were own the ice, bould be glad if you could see your way char to spend a mule or so with as at Robbell To see what is being done. as the mealer is uncularer & me should whe to take advantage ple see while me have it. Beron The level Care Tuy -Recent flights, very encressful wish you and have seen them. Bown The Blue awarded Hurs My he County, Harpan Headed, or to thed lover Louise Million har the way out the ice on Badded Bay at antil been who the days are few days the sers. Barbara to the day as a faithful the accordances to the County are plant from the few days the accordances to the County of the faithful of the faithful and the community of the day of the contract of the county o Mun audronn - oner eti en on Bordich Bay, in Tus hautiful flett in the Dione Bardiel hoz flying at an elevation of from so to to Ju for in the die - The Commence and one & has hard a morefetime madere

march 3 - .... Thursday -WARD. a monoplane has been completed here of buth plans of the Sardina Stalkers of Soston which will be true out in a few days. Detall Sur Whatedree androne have also her hutt in De Srehaus Bill' og perimuhue lubralon onder the superculardere je her brilliams F. Brown. Here also week to this som welm a few days. In all, fine androws are now ready for Triel the land of the Canadian audione to hamily Kinddel, ho T Borded, h 2 a the Hubbar Mongelane. 4 her according in Dr Bels laboratory names Expert II & Cronso ho I, de Chef syru Signar Office of the les, and infusing the interest of the his than before in the trues now hing made at Rendrich Spatier Bill The state of the s

1910 march 3 - Thurday -\_\_ ar RB 133 queed n.s. Was Xipaixment Nashington 6. C. how but wish you has tun to see them The hautiful flight were made hur the. morning in the From Boddel. to 2. Sterstun bish you has been been to see them. Elizabeth from fell A 700 H. lotar dislama. Iransued from than levely mile Joseph McCardy of Booded ariston -Svola Bill march 3: - Gred of Baddeck no. a mar. 3 John made two of the beat that we have seen this
that we have seen this
the first was ten trines
around the bay lasting 20 min
around the last was
a 30 secs. and the last was
a 16 min. one. 6 m the first flight John mistrok a signal and Mindling something must have record he landed bicause the throttle slipped. The engine

March 3rd at. B.B.

was feerfectly cool and
everything very ratiofacting

on the start of the 1910 her time between and m. Carrittois wharf and Mr. I Lennans brot bruse The time was 641/5- secs and the distance which we measured earefully with a steel take - 3120 H. So 642) 31206 (48. (0 ft. fur sec. Spart to Sales It per see. or Speed 33. 14 miles per hom. 5136 3900 3852 4860 88/2916 (33.14 m.p.h. 120 Thre was practically mound ant of a large no. of readings and animomenta only two showed will as much as two miles per hr. S. W.

1910 Mar. 3 Shuray arvin 135 Telegran to, Halfan Charles Selbert H Sweeners. The ice is at last in good condition here + Times This morning - Suo heauliful fletts Sardinuis honofeleure, completed of looks Splusialy by beono no. also ready for true telephone sained hand 3: fette out a Harsley 1.850. March 3: This is my buttedens . (born hum. 3 1847 List of my articles in 1815 Peleveder Tuber bever old note - boules se bil I h. 17 Some objectioner to the use of a vertical rudder, 1.34 Water, water energywhere and not a deop to drink p. 42 Some objections to the use of vertical surfaces. h. 134-15'3 - ancestry of the Muchinippled sheep. 1. 179-201\_ Study of ancestry of multinippled strep including blood-values.
1. 236 \_ buttiend steering. p. 239 - Horizontal externing! ha 278-286. Shup statisting for bulaky sears. 1. 827 - 832 - Sheep exaktivitals (1890-1909) conteming. 1. 85'8 - 35'7 Ship skakiskus (1890-1909) continue. 1.358-316 Shup atalisting (1890-1909) Continued. Vacuum ballovus. p. 357 -1. 39 - mag first insention but 1. 39 -1. 509 - turnile research machine. A. 61 - 47 Killing a Cat in the intenses of Knowleye. 123 - Tipe with my grandfather. A-95 - Moles was responsible for W. Harbard's death

- ot. 1310, 137 1910 May 4 Triday hara: Third flight this morning with Boardich ho & - AM. She was a wind from the hack or N.W. must round the day about times in 6+ munte wind. The animonatu shows of high on the Kers. show 6 right in the middle of the day or 9 + mphon the Curent Shore shore -Bushin hat a good small in the sledge Store hut thus was no down dragte encent. Jaones John made flight of 6/2 mins. this mining, in Baddeck II. Puffy wind made it Mar. 4: (7.W.B.) advisable to come down. Encything OK.

March & March & March & Mr. B. mar 4:- (mc) The Docial acro Club met on mednesdag erening (march 2) in their club worns. Resent about wenty-fri members. It was arranged that this meeting should be given over to games and general enterlainment and so for most of to checkers were laken part in by all.

The feature of the evening was a four-handed jung jung lourhament.

138 1911 marcht Funday - alkB frankestand; as Novaments of hintest around, the champeonship of the Club. Har he salane and mr. By tooks versus mr. Walson + Mr Sparling, It was culainly worderful The wish what dertirily & ease, the both side housed the hall on Some of the stroke executed moved
I am some be a credit It the
Davis culp
Dake in The though marches, at about eleren o'clock our efficient louse committee gare us a Spread after which the lunders called the nuture to order a stated that the husiness helpe the meeting nos A diede upon a subjet for discussion mot Vidresday. weing. Mu Walson proposed, The subject. "Shower the franchise be enluded to none." The subject was enounious chosen 1910 hune 4 \_\_\_\_\_ Fridery \_\_\_\_\_ at 189 139

4 hu Walson pashes & leas off on the nyalise side Thu Davidson A define the affirmation. -It nos femilia proposed & diedio of man parish though the st for an open myst + each much vos gin the ofspirtunt buigning lis founds - (a lumber member life the discression I toch hadis -Gulleran. The Kype was expusses that Dobell would be pusued, + son a few wood upon the house transles question paracture. Committee. - Mr Maushah. In Hallord 4. les Busin nue enouvours elected to low office for awill lam.



## Droming Over the Ice 100 Feet in the Air

Testing of Aerodromes at Baddeck Going on So Successfully That the Head of the United States Signal Service Expresses His Interest in the Experiments.

BADDECK, March 3—Droming over the ice at Beddeck bay started here a few days ago for the purpose of testing out aerodromes constructed by Messrs. Baldwin and McCurdy, of the Canadian Aerodrome com-

This morning Douglas McCurdy covered over twenty miles in two beautiful flights in the drome Baddeck number two, flying at an elevation of fifty to a hundred feet in the air. A monoplane has been completed here after the plans of Gardiner G. Hubbard, of Boston, which will be tried out in a few days. Two tetrahedral aerodromes have also been built in Dr. Bell's experimental laboratory under the superintendency of W. F. Bedwin, and will be tried soon.

In all five aerodromes are now ready for trial, three built by the Canadian Aerodrome company, namely, Baddeck number one and Baddeck number two and the Hubbard monoplane, and two built in Dr. Bell's laboratory.

Dr. Bell's laboratory.

A telegram has been received from General Allen, chief signal officer of the United States army, expressing his interest in the trials now being made at Beddeck.

Mun 4: W. Kedwin was at the Hourt This Evening \_ He told us that a horse had fallen off the whenh in Badderk and had washed through the ice hato the water. It had been saved with difficulty.

7

## The Morning Chronicle

in to I law to down division of that the

HALIFAX, NOVA SCOTTIA, MARCH 4, 1910.

## SUCCESSFUL AIR FLIGHTS AT BADDECK

Mr. McCurdy, in His Aerodrome, Sailed Through the Air Like a Bird

BADDECK, N. S., Mch. 3—Dromeing over the ice on the Bras d'Or Lakes is again getting into full swing. J. A. D. McCurdy, in his aerodrome Baddeck No. 2, made two magnificent flights of thirty-five minutes duration, alighting in both cases with the grace of a bird.

The weather being so mild all winter, the ice has been in poor condition. Now that it is in shape some great flights are expected in the near

There are now five machines ready to be tried out, Baddeck No. 1 and Baddeck No. 2 and Mr. Gardiner Hubbard's monoplane, all built by the Canadian Aerodrome Company, and two other machines built in the experimental laboratory of Dr. Alexander Graham Bell, under the superintendency of Mr. W. F. Bedwin, of Sviney, C. B. the Cognet No. 2, and the new Oionos No. 1.

Droming over the ice at Baddeck is the real thing in winter sport.

1910 march 5, - Salunday - al B.B. march 5: - Ins. Bell had lost her pearl necklace. He remember of having it on mednesdag might (march 2) and can't remember anything nure serve. She has reached everywhere firt. womes march si: - The following telegrams were received from adiawa yesterday (march 4): mar. 4 7. Mr. Baldwin, Baddeck, C. B Re Governor- General desuis me Withank you for your beligion and congrabulate you on ruccessful flights. Ind Sieg hypes you will forward full report from 1/20 lime to lime (signed) arthur J. Dladen mar. H. mocundy + Baldwin Baddeck, C.B. I shall leave montreal on martinie Egness Sunday non & Please have every-they in readiness of flight early next week. Ju-(signed) majn mansell

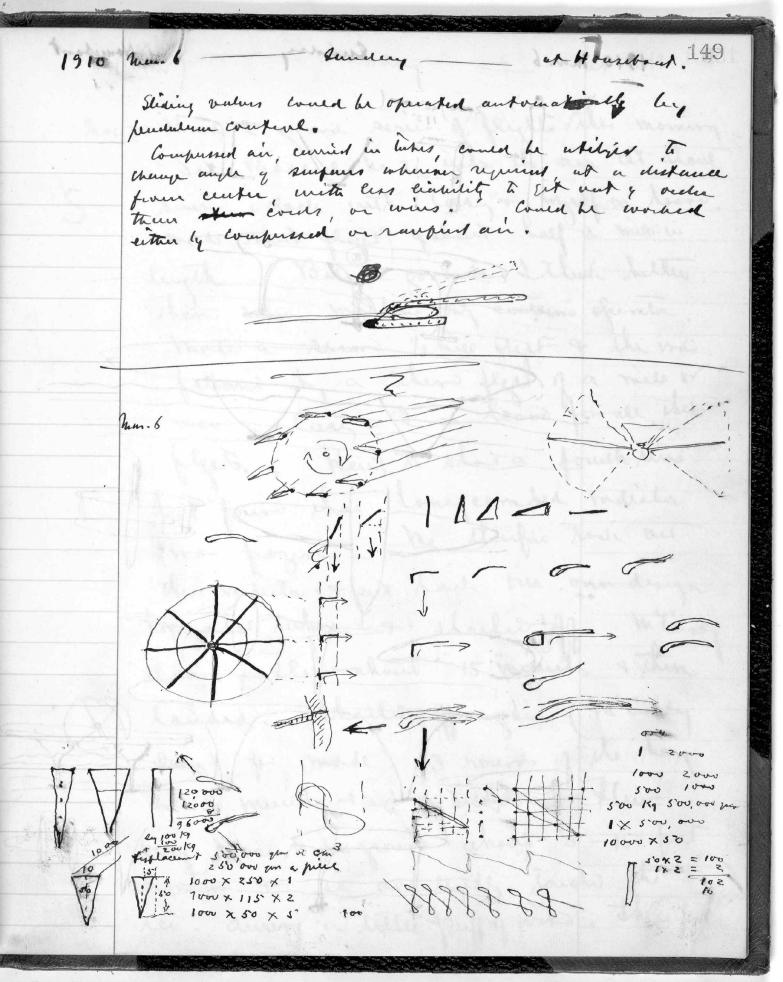
Fuday + -avest3 1910 march 5 explaining the recent changes in the a.a. P. S. S. and the association Recrew. Basis: - Running expenses including sublication of Review mor met ly membership fees. advisable Bar this should be done so had the income from the endowment funds should be studly applied to the Jengere for which they were created. It will It will require a membership of Of least 8000 to pay for the Review whene U.S. and Canada (including industrial leachers) amount to only 1684 1777 according to latest ands statestics. morden Sterefre to reach a membership exceeding 8000 To is obvious that the membership must be recruited mainly from outside the ranks of the perfession In order to do this the publication of the association - He Review - should be made interesting to son-perfessional readers as thist publications is all me have to offer in return of memberships lee. It is occessary to enlarge association Can't be done from the judession. Hore Wo Jo Thoutsidus. Plato the peynot of the whole

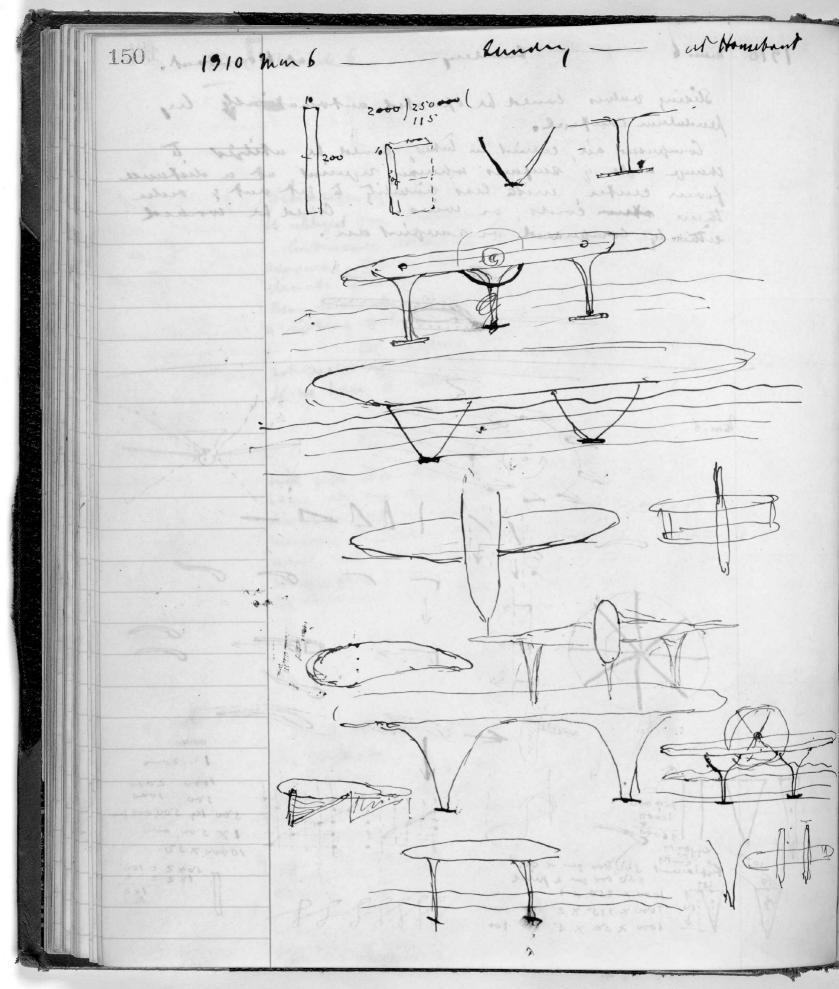
144 1910 march 6 - Salenday - ar Bo association suffers from scattering official headquarters in Rochester My. actual business office and center Jactenties at Volta Ruseau, Kasheja, Serectors scattered all over the country Can't come Wither. Remedy - concentration upon kashington, 12. C. with a runking quoum of the Executive committee The Board resident in trashengton, O. Renganzation & association under laws & sestuct & Columbia, advisory Connail to Board. Policies - concentration en Re management. a publication of interest and value to nordpurfessional perple to come out regularly as a monthly and a rystematic effort to tenlarge the memberships ontaide The earles of the perfession Spacial classes to aim at in recently nembushing that have not not been touched Carista. Persons who have become dead in adult life Caunts of dead children.

Saturday 1900 march 5 Teachers in the public schools of the hearing young people generally - there is no publication devoted to giving useful in formation to young people - nearest approach is the youths Companion but this does on fill the want of a penodical of educational value giving information on all the current office of the day and upon the subjects Istudy in the Rublic Schools written in an entertaining and untechnical mannel and well tillerstated after the manner the Kalional Gerjagelie megazint Such a periodical would appeal DIA Zenesal public as well as to young justele Policy of electing to The Board only persons troks can reasonably be effected to attent to annual mellings Other persons to constitute an advising Council to the Board. Best may with elabret The subject will be a letter from the Clauman of the advisory Council (als) The sub-committee Int Board i washington, Le. C. This letter to be gublished in the Review . ass.

1910 Man. 6 Kundery at Housebank, monds hoticed last night what horthern sky over top & Bob. seemed to be somewhat brighter There anous driver and suspected aurora conceuled by The mountain. John Wellrund, when he Cuone with the mand last right (men 5') rejusted That he saw hosthern Lyets - " Very pretty but did not entend very high " I judged that I were an amount wroke town lying, and not very arting (man 6) I motive the same brighter appearance in Northern Ray obstined last night - 20 Euppose there may be amoral glow again Showed think lowest part of Northern they visible from how must be 30 or 40 or law more fran the housen ' 2850 28-500 60 950 171000 who have made being whileful plan washed . and Compression of the 60 8 95 830 7) Keachan Cuhanst Fevre House. mon b' litilize discharge of enhant our balancing persons. After Utilize small peopuller for balancing purposes ( engested by Enjahams paddle wheel bolances). - Either above or below center & markin - and at cut of wings. In first case (a) acris of balancing propulle housintal & transverse; in servered case (6) assis weekerd. wrote 8 Baleriein, propellers surpace Objection: Ex Takes time to skart These But to one direction huster say to stembound. a Rout blower would be in ropilley. be directed where wanted. Same with Exhaust g Engine, Vicet it the wanted. In reverse direction hursens to part, paddle wheel only

of Housebeat. Sundery \_ 1910 much 6 Discharge of air or gas, at ends of weing fried would be utilized for balancing purposes, Continuous discharge thrown streetly beach bulks to alwance. Tepers noggle so as I blow down helps to depute that end, elevate that end. Elevate it helps to depute end, Blow down at one god and up at other end and a nixting action i pendered. as righting action out, needed occasionally not necessary to have a continuous discharge, if we have a store of highly compressed air community with pipe, Then sliding venture could I open hall above at one end and below at other tuda The discharge, (which would only be continued to long as weesay to produce righting artison), could be short of when not wanted the thoot blown or pump to produce when not wanted to on working continuously - comparison q air could so on working continuously - the discharge only being whiliful when wanted. aff From the time to direct discharge. Could discharge jets be used in place of all they could have the advantage The controls? bound not introduce us much resistance as sugues set Zanture lube connections could be so shaped as to appoint support The utilization of discharge jets worth counting. Trying can work a pump to compaess air in a southwar chamber. The discharge of this air at hours for removed from The centure of gravity (or centur of personne) could be attleped to herporum various turning artisons. Comed centainly huporor to herporum of steering to right on lept boundaring of righting, perhaps also precious with or down. However steering centains, others howevery





Morday ar nn 151 1910 My mar 7: Had a grand series of flights this morning: Six Broken ho 2 into the air at along made short fliger gabeur half a mile in leight - Balmer good a Ithin heller than when madens only contains operator More a sums "Ismee flest of the voice of follows by a their flest of a mile or more - Cary a son looks for all these pleps. - Henry It should a fourth time but found the long comber radialer mas frozen - he ithrefar Trade out This valuation of put had the own drugn longolde tukes. I should off. M'Card alone. Ilunahour 15 minutes 4 thin landed. Should of again (he andy alone) & made 13 rourds of the hay in 30 minds & some seemeds - Herr boy dose A the grown about 5-15 feet elevation of its accidently touches the rei. during a little puff of word. There for

152 1910 men 7 - Monday - ut 1875 landed as there was ve no good in tigung to Je for on low. no trating of rugine or malu Gweething of Jaom's me Mary Bedien raw the bionos hos our I tem no alluste made to fly her She looked my pully faomer hat found there somber vodicher Had very successful morning 1910 March 7 with Baddeck II. She carries with Baddeck !! as well as one two apparently as well as one that any self-the honeyout shorts off a lot of the honeyout radiation or that engine heated.

If Put on self-sufferiting made type of radiation or phended flights by two more splended flights by the survey of survey and 30 mins.

Radiator evol a conclusion of flight, setisfactory at conclusion of flight. willy

1910 mar 7 m suly this morning arming at the sheet by sever 153
99.H o'clock. Perfect wracker, but ony cold. They soon has Bracker 162 It ready for flight and Douglas and Carry of abound. The canad the double weight on rasily as possible and I do not think I given some her so satisfy. No attempt at a long flight was made. Plain water had been put in the radiation which now froze and it was decided to try the old one which had been changed to afferd belter flow. This change made Burylas went into the air alone making two vry puly flights, at low attitude, of 13 and 30 minutes. The was very steady and the radiater proved that it would cool perfectly. Bedwin also had dry Orous, which look extremely wee, out are now her around the ice second 7.W. B han 7: Bedwin tried the Brins with the small air croled engine - grand 11 to 30 (approx). diam. of profæller about 7/4 H. She moved along about 12 to 15

she moved along about 12 to 15

m.p.h. The after starboard wheel seasily. The after starboard wheel came of the runs that the machine came down on the skid & no damage was done You Mar 7 vied the viones machine in the see this W. 7. B. am had on the little 4 eyt aircroled Engine beared 12 4 30 to a > 4" two blade propellor everything worked finely needed a lettle found that rear asle of true! needed a lettle thought reinforcement also found that there were some lettle details that can be improved such as lightness out the X

steering from ... I will will be to the last steering bar . Te. made five runs around the' bay of about a minute lach rigine would then get hat: Steering worked first class not a steering worked first class not a glad her in any direction. the sums the hear wheel during one of the starboard side and came of the starboard side and machine settled onto the steid day no damage. W. 7. 13. Mun fohn he' heil - hole in Camera - en pleotos. how headonald supped plotes all the morning no plates in his holdist. X.Y.Z. B-monet St. N. 7. OA Total 894 259 435 Unkn 24 24 -1m. 870 435- 435 7el 22(13) 12, 10 mar 3.69 177 192 Opl 2.68 145 123 May 178 84 94 gne 3 3 (16) 17 116

1910 much 7 monday 113 mm 4 n tw 3-85 wf 2 n x 12-86 wm 2 n x 60 aplo-0 1891 11892 311 um 3 n 8 may 287 2 1893 1314 13 fon 8 1208 w fons 1221 um 6 n 8 bom march 7, 6 lls. mo i ys 7a. 1 ys. all actives is by impact. actives of a maximal medium purhancy Them apart. Our attentive effort produced by a remounding mothers.

There apart.

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Chesion: an attentive effort produced by a remounding mothers.

Present for purpose of the body brother.

Present the basemented by the reconstruction, Light the franced by the motion of to mederin H majurtion Will flowkery backy H Hoto hox set one end and c cold. Cold at the other more in to direction of the Cold end. Will two such bodies attract one another when Their cold ends are presented to one author and upil when Their will sum a body to repelled when the hot end of a rund is presented to its hot early and be attracted when the cold lad of rad is presented a The cold end. 5 Modern roxaking

\_\_\_ Junday \_\_\_ at 12/s, 156 1910 Mar 8 hight. The maner were very high to Thei force was no quat that the rec was confully linken up down the Bay as bar as the tahoraton wharf - -The hay is now fulled with large, Clampus on of some frest would come along these champers might be comented togethe. Mayor Maurell arrives here purmic songe so ne ment hape for the less A Migur Manuell arrins at Bis. Hell This' evening - He was must at the Namous by Justina McCerra, also arriva fum Boston, der viset tere ling espreally to see the flight. Jum & Will flowbery boules have had been freely to the total and the most Will two sent bakin attant our mother when their could call on power to one our our application their will find a love to open when the box and o and is present the first early and se cottonled when the Elect and I have had is presented to This cold and. 8. The Robert Min

Wednesday 1910 march 9 - as BB7 march 9: - (mBMcC) walked down to The Laboratory this morning about helf past seven the rest having gone ahead, when I arrived there they were higher to start the engine at faist me didn't know what was wrong but after a while found out that there was a leak some. When , or at least that is what I underslood Am. Baldion Dray. after narting ginte a while she finally started and longlas van her down The Bay but The engine named working well so he slyped down There and, after New had luned The machine, now her back to thed under her own perver. The next time she started of well and Douglas regain rand her down to the head of the Bay taking willie mc Donald award with hem so that he would start the machine up down there as he ice no rather slipping Dis lime the engine nos unking will much better and songlar took the air after a short our . Came up Bay and made the tun ge near Im. I Kennan's boathouse He was flying very low and while making the him, a wing the tip the wing wright breaking a small sturt; however he flus on back to the shed and alighted Q. 16 himself as much mayir mandell expressed himself as much pleased with the flight my Beduck had the smoke very and there was mot downdays. I mind appeared to be south thest the first the

158 1910 march q - Irednesday - ONBB. General Lake, Inspector several, militia saspartment, attawd asord flights today over ice. Carried me lux miles. Further trials tomorrow and succeeding days. Lee may last some days yet I justeral leaving here Friday (agid) maunsell - Thursday - at 1819 1910 mar 10 hou 10: meeting of tocial acco- Clerk last night, Opla mexing and luchis present . Viscousive Women's suppraye. thath Shall women be allowed to voke" Percelt og 10 2 12 15 24 ZHA WA 19 17 36 hum 10. Fourles circled the bay Three times Ranky this morning in Baddert Wi 2 - Landed mile but have before madine with skyped run on to broken see. This to turn on the busen plans & rum buck to the good ice ~ but pairs y is a war damaged. Machine some repaired - but wind come up premuting futher for a spin with the Centres air-cooled Engine. In the for a spin with the Centres air-cooled Engine without the the tail supers horizontal to me to us to put the tail supers horizontal to me to us to put the tail supers also to put branch surfaces and to put the surface and surfaces surfaces surfaces and at

reen. Machine apported by wind on the lee. Bedwin found be could not steer it people at an acyle to the wind. Steeded badly. Mr. 10: I hear That W. Fodge place two Sydney photographer, amount in Knowledge tradery to take photos for us.

mon to him he Claudey had a telepan beven her father has him to him he father that he Frage, Leint- Governor in Haliface stating that leave Fridery for Knowlede & hove Sertia will bear Fridery for Knowlede I witness The flights here. Have trypubled for Frage inviting him to skay with us Mu. 10 (7. W.B) -Beautiful morning for flight not a breath of wind at seven oclock when we drove drive to shed. John made circular flight of two rounds in 4 mins 30 reco Engine faded 20 came down mean shed While trying to turn around one, wheel went through ice bruking one of the which and some of the fittings for the which. Delay of 12 lins, or so if what chances for further flights as if wind sprang up, Have shifted N.W. wind sprang up, Have shifted buch to however radiator as for some unaccountable reason engine some signs of overheating although showed since 1/2 hr. Thist. wind held all day and Rept up after sundrum are not further flights could rundrum are not further flights could be attempted (7. W.B.)

(Mar 10) fishman morning, Beauth hor was
glown. Much two rounds of the hau flow. These two rounds of the hay & lander in fort of the week but. muchin ran on owing to be speed past ile shis- 2 thujou stoupe shor under closed throthe deroued turn for round on see & lung her had to the plus doors - Livred De port- on ihr ier running slovely huts ice was as slifping their that I car bounda duly run over the clamper see -The new ree believe claufeers. no not strong ewigh & rear unde what went though , to dent. a helt in fint shal bracing also broke or the rapairs Took about 2 louis he has to allach a long rape A machen & drag her

onto the soon good ice, there showing The rese of the Shids. Ne also referers it long conhect padiala hierese for some unexplaned noson the regime deales although evertury was oracle the semios ulin half bour flyte vos made Los winds for further had. Jasm ? This noming he flow Booked los again. Male the or the rowed.

Not at elevation of about 40-50-6.

Just, Sond flight - landed off shis making good landing. on second huis would provid tricky too coundourn webout naling a real flytt but houterly wind squals Corne of Arasus pour gally of off The cuel at the Sprins ovaflow on the 15ths. shore faoring

Mar !!

162 1910 Men 11 - Frdy - at Mrs. Ma 11. The photographer from Sigles took photo gall the maduni on the see the nomine - broso hot. Boddede, lo 2., + Mile Mossplane. The Cegnet I vice he pholographs
The oftenoon as it will take some Time to go be out on it ice as the are no while under the . I she vill have the lifted a good deal. Budded by I to his. her while removed also so she was not talem our recher The photographer. (Mr Ealon from Dodge & Co Segaley). assures ne the secure exposures gite Baddich lo 2. in fegte, If I les and most port aon't Some How thought the really and

- Lut at 163 1910 man 12 Man (2; for Enterday (man 11) just before dusk toylars twow a turn round the bay - Allend to make a good blight - but evidently had some dispirally in turning in the wind formed at fast as y be were heading for open water and when for out over the clarifier ice headed straight for the Bis shore near Lever The stable instead of turning up the bay to the sued, the seed a report like a pirtul short were heard . He evidently burst a Tire There instead of thereing where he was be put our fact power and rown own he winding to that shore. Lax \_ 1910 mar. 12 \_ at Houseboart. mail! The Lint, Courner of hover Scotia Hour. C. Frager I his son with How. He me he Curdy & he he with the withens The bufts, ( shortly after 7 a.m.). Mayor housell stand over, instead of barries restrictes as he had infended. a sewis 4 good flights in Buddele W 2 was made of Mc Curdy in the forenson ending up with quite a fine high plight. Lov. Fragul protes and I witured it from the Local virandale 20 we could not judge to height correctly. Elivation may have been anywhere beven 50 to low feet perhably more many the latter as the height was fore shortened by viening it form above. he masterly way in police he Curry laures on the wer was especially notecrable. my hampall to ghis apparent book for

at Houseboak. - Aut -19 10 mm 12 -The fraud homens quel Lydney. He purposes to spend Sendy in hydring and enamine the riple-Tarots There leaving housely morning (Man 14) for Ottawa. Frage at dinne: Rement: for Frage, his zon W. aleista ? There, har we were he lindy him Evorgina McCourty, Wiss Muche McCourty, M. Hathand & ask ... الاسطال الله Postulate! The simple postulate is that matter is enert Rockweste: Assure That matter is inert; Compared to howhile questin can act durity If this is true then it pollows that attraction was repulsion are not interest perspecties q matter Corollary! ( matter has no interest power of attracting authority authorition of repulsion one most interest properties of matter. Matter has no interest interest properties of matter. ho hatter here no interest power of influencing the Cuplan condition 9 Further Hospeties consistent with The postulate: - Emperoterbality and there inconsistent with the postulute; - the count assume that a putting has a withing a willing or influencing of the position of the position of the properties of further to smith to make the properties of further ability to smith the properties of further thanking to smith the properties of further thanking to smith the properties of further thanking to smith the properties of the properties of further thanking the smith thanking the properties of the pro in motherly way in whenh the land towers on the cer war expected with and

Halipea Chronicle man. 12 1910

## MORE FLIGHTS BY THE AERODROME

Lieut.-Gov. Fraser Will Witness the Experiments at Baddeck

Special to The Morning Chronicle.

BADDECK, March 11.—In the Aerodrome, Baddeck No. 2, today, J. A. D. McCurdy again made several successful flights, at heights varying from forty to seventy feet, he circled the Bay several times. The bird-like machine was always under perfect control, and the aviator alighted with the greatest of ease.

Major Maunsell witnessed today's flights and he was greatly interested. Among those who arrived here tonight to witness the flights was Lieut. Governor Fraser, of Nova Scotia. It is expected that further tests will be held tomorrow.

Halipun Herald Man 12 1910

## Governor Fraser To See Flights

BADDECK, March 11.—Flights for Major Maunsell were continued this morning. McCurdy in Badeck No. 2 dromed over the ice on Baddeck Bay at a height of from fifty to seventy feet, circling the bay three or four times. Everything worked well. Major Maunsell has expressed himself delighted with everything he has seen and is so eager to see all the flights that he rises at six o'clock every prorning.

one of the farmers who had driven over fifteen miles early in the morning to see the flights was so intent gazing at the drome which was soaring far above that he forgot all about his horse and was only recalled to himself when he felt the sleigh jerk forward and nothing was to be seen of the horse but his head. While the man was gazing into the air his horse had moved forward onto the clamper ice, which filled the upper part of the bay. There was great excitement at the time, but the horse and man were saved.

and man were saved.

Lieut.-oGvernor Fraser and friends
from Halifax, arrive at Badeck this
evening to witness flights.

Avietion meet spoke of Handham as a distribution were the country. (The word)not my doing - unless curtis supplied the word)not my doing - unless cutting thom the qualter

which shown that he word drown Companion is attenting attentioner. Joutes Companion march 10 1910, D flying in an air-ship; dromer, one who dromes. These are candidates for admission to the dictionary. They have already been adopted into newspaper English, and one hears them occasionally in conversation. They come from the Greek word meaning to run, and are abbreviated from an older form, aerodrome, which has been in use several years. It is to be hoped that hippodrome and dromedary, which have been droming a long time, will not object. hatme fan. 13 1910 1. 305". "The family and the hateva! a skeely in hutural Substitute and Social Responsibility by W.C. Dampier Whetham F.R.S. and Catherine Jurning Whetham My 1111+ 233. Louden, Longmans green & Co 1909 7/6 p. 309 Telegraphie Transmission of pictures of T. Thorne - Bakes 1910 Man . 14 - Moudey - at Housebout hu. 14: about dusk on Judy (mai. 11) attempted a flegt un aurdione Bodach hos. - he had put on a smaller propeller with a dearnets of 7'-4" wested of the 7-8" one we had hem sure and it engene the returned sitte prises faster goring is mon horsepourer - Starles in name pleer + life the see about off Carriel's what. - There was quite a puffy I when I M, W, M, a when I Equal C tray to must the whom to post I should

1910 hun 14 - Monday at 1815 169 Machine fligger which he did - Casey Mayor Maunuel & Hullion arrived at the fauch of the second flight - The engine gan us trulle - he etaghe it might le mosture troubles + 10 di concelle che redicte or ottailed a harrie of melin A cool while me now water at shis, She now Oll, giving no house at all so me allengeles another glype - motor Stoffer again & Litauphe the Trouble key in the fact that the own flow water from the radiation got on the magnets + short circuited, he could up the magnets but die ner showyel, dry it M- malu sleppes on next treat all the flesh made mu good a no damage surtainer, It Dov. Traser. untriesed the flyes + appeared much 1 apric pleani.

marles player which while enland

On furthe consideration of the fearibility of employing diedeal wing tops to preserve lateral balune I breme more and more convinued that they will prove practical and that the disadvantages are slighter than they appeared at first glance. The chief of the laster is the tendancy to side drift due To side winds but & bolier Hat the Tipping Trudancy will be very slight, especially of the diedral angle is made as great as 60°. It may sum prove advisable to make there tips virtual. I do not think however that the latter is necessary. It would also seem on further study, that the lefting action of these wing tops will be greater than there of a similar area placed behind the wings with variable aughs of incidence. Side quits of wind will also have a tendancy To shoute the tip on the side they strike thereby decreasing its lifting power and at the same time depoins the Tip on the opposite side there by increasing its power. It is questionally whether the variations will affect the head resistance thereby Causing a tendancy to turn about the oritical axis. In view of their fuets and the advisability of having some distinguishing feature to a machine I hope to try the experiment as even as possible.

James -

Type to sociation

Halifan Chronisle.

## BY AVIATOR McCURDY IN HIS AFRODROME

Lieut.-Governor Fraser Was Among Those Who Witnessed the Experiments at Baddeck, on Saturday--The Aviator Ascended To a Height of 125 Feet, And Then Made a Graceful Landing

SPECIAL TO THE MORNING CHRONICLE.

BADDECK, N. S., March 12- | flights of today. Major Maunsell left Droming at Baddeck is in daily practice and is drawing visitors from far and near to the scene of activities. Lieut. Governor Fraser of Nova Scotia and son, Hon. W. F. McCurdy and other distinguished visitors arrived at Baddeck on Friday evening and were early on the ice field to witness some mannificent flights by J. A. D. McCurdy, the young Canadian hero of aviation.

Mr. McCurdy in a series of flights demonstrated to the large gathering of spectators flights of from five to one hundred and twenty-five feet in height and the spectators were jubilant over the graceful landings made in every flight. Lieut. Governor Fraser was very enthusiastic over the flights, this being the first flight of a heavier-than-air machine he had witnessed.

Major Maunsell who was to leave here on Friday last was so infatuated with the daily flights that he stayed over until this afternoon and was also very enthusiastic over the where he had unlimited space.

by the steamer Blue Hill this afternoon for Sydney and will leave Sydney on Monday morning for Ottawa. It is presumed much will depend on his report whether the Canadian Government will invest first in Dreadnoughts or airships. It is to be hoped the latter.

A thrilling little incident occurred during the day's proceedings, William F. Bedwin was trying out Dr. Bell's Oionos No. 1, testing the steering qualities of the machine not for flight. Mr. McCurdy had just made a landing with Baddeck No. 2, seeing the Oionos running full speed, fully a mile in advance of where he landed, Mr. McCurdy turned on the power of his motor and set out in pursuit. To the onlookers behind it looked as if a collision was inevitable, but Mr. McCurdy soon put all beyond doubt and demonstrated, if confined to space on the surface, he had the wings of a bird and took to the air

Monden, Halifan Herald Mar 14 1910

## **Governor Fraser** Sees the Flights

Mis Honor Much Pleased With the Work of Aerodrome Baddeck No. 2.

BADDECK, March 12 .- "Invaluable for Canada to have on hand in time of war." This was the expression of Governor D. C. Fraser, who was in Baddeck to-day, accompanied by his son Allister, the guest of Alexander Graham Bell, to witness the flights of aerodrome, Baddeck No. 2, from Dr. Bell's aerial navigation laboratory. With the governor also was Major Maunsell, of the Canadian militia department, who stayed over to witness another day's flights.

Governor Fraser was on the flying ground at seven o'clock in the morning in time for the first flight of the day. McCurdy flew up and down, around and around the bay, covering in the eight flights in all about 18 or 19 miles, keeping at a height of from 50 to 100 feet. Citizens of Baddeck and farmers from around the country on foot and in teams, flocked to the scene. In one instance, Mr. Mc-Curdy, in his drome, flew close over a man who was hauling a load of hay across the ice. The governor was much excited over the flights and Major Maunsell watched the performance with intense interest. Speaking particularly of the ease with which the aviator brought down the machine, Governor Fraser was very much impressed. "Why," said his honor, "just think of the different uses these machines could be put to if the Canadian government owned them. Not only would they be imperative in time of war, but they could be used for the purpose of exploration in the north.'